

A330354

FORT BLISS WATER DISTRIBUTION SYSTEM

**Fort Bliss
El Paso, Texas**

ENERGY ENGINEERING ANALYSIS PROGRAM (EEAP)

FINAL SUBMITTAL

August, 1994

Prepared by:

**CARTER & BURGESS, INC.
Engineers • Planners • Surveyors
3880 Hulen Street
Fort Worth, Texas 76133**

19971016 242

C&B No. 94127601F

DTIC QUALITY INSPECTED 2.



DEPARTMENT OF THE ARMY
CONSTRUCTION ENGINEERING RESEARCH LABORATORY
7000 DEER CREEK
CHAMPAIGN, ILLINOIS 61820

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ATTENTION: 72-1 Library

17 Sep 1997

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[Signature]
Marie Wakefield,
Librarian Engineering

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ENERGY ENGINEERING ANALYSIS PROGRAM (EEAP) for FORT BLISS WATER DISTRIBUTION SYSTEM EEAP

I. NARRATIVE

A. Purpose

The purpose of this study is to analyze the existing system and an alternate method of peak electrical demand shaving for the water distribution system at Fort Bliss, Texas. The existing system will be referred to as Alternative #1 throughout the report. Alternative #2 includes the addition of water storage capacity in order to allow the well and booster pumps to operate only during non-peak electrical periods.

This report is prepared in accordance with the scope of work for Contract No. DACA63-93-M-1259, Purchase Request No. FED-MO-0093-0101 (Refer to Appendix M for complete scope of work) and is a continuation of a report conducted in February, 1993 by Carter & Burgess. All pertinent data from the previous report is represented in this report. With the addition of the detailed KY Pipe Analysis. The blast Life Cycle Cost In Design (LCCID) program with the ECIP option was used to determine the Life Cycle Cost (LCC) and Savings to Investment Ratio (SIR) for the analyzed retrofit for a 20 year study life.

B. System Description

The existing water distribution system consists of 17 well pumps and 5 booster pumping stations. The desert field well and booster pumps were not included in this study due to their remote location. The well and booster pumps provide water supply to several ground elevated storage tanks located across the reservation (Refer to Appendix N for map indicating general locations). These storage tanks are located to provide three pressure zones. The upper

pressure zone is maintained by a one million gallon tank. The intermediate pressure zone is maintained by a 0.6 million gallon tank. Pressure in the lower zone is maintained by three (3) elevated storage tanks.

C. Analysis Of Present Energy Consumption

In order to establish the energy consumption of the existing water distribution system, El Paso Electric supplied 30-minute measured KW demand values as well as utility bills for the entire base for the period from September 1991 through August 1992 (Refer to Appendix B for this data). This data was used to determine the peak electrical demand day for the entire base which El Paso Electric utilizes for billing purposes each month. Next, the Williams Electric Automated Control System was utilized to download the pump run-time data for each pump, for each of the peak days during the 12-month period previously identified (Refer to Appendix E for this data). Using the run-time data and the KW demand for each pump, the total pumping system electrical demand was calculated and subtracted from the base electrical demand and plotted with the total base demand (Refer to Appendix C for these graphs). These graphs represent the maximum demand savings possible through modification of the water distribution system. These graphs were then used to determine the maximum peak shaving potential, and the most advantageous operating period for the peak shaving methods. Example energy calculations along with a narrative description are included in Appendix D. The total peak shaving potential for the pumping system was determined to be 3,138 KW/YR (Refer to Appendix E for calculations). The most advantageous period for peak shaving is between 10:00 a.m. and 3:00 p.m. daily (Refer to Appendix C).

D. Analysis of Present Water Consumption

1. Purpose

The purpose of the water distribution system modeling was to determine the additional water storage requirements needed to operate the system with distribution and well pumps turned-off during the hours of 10:00 am to 3:00 pm.

2. Proposed Water Demands

Existing pumping records for distribution and well pumps for the periods between March 1993 and February 1994 for the Fort Bliss and William Beaumont Army Medical Center (WBAMC) systems were analyzed. The well pumping data was utilized to represent the average daily demand. The average day well pumpage rate was 3.21 MGD.

The peak day well pumpage occurred on June 16, 1993 and was 6.95 MGD. Hourly pumping records were unavailable for the wells and distribution system pumps.

Tank level information was not available. It is reasonable to assume the average daily and peak day pumpage corresponds to the water demands within the system. Hourly records of pumping or tank levels are not available. Hourly electrical power usage by pump (from Energy Engineering Analysis Program report prepared by Carter and Burgess, dated February 1993) was used to evaluate the diurnal water demands. The peak day pumping records for July 23, 1992 are presented in the table contained in Appendix F. A graph of the diurnal demand for July 23, 1992 is also contained in Appendix F. The maximum hour usage occurred at 10:00 pm.

3. Analysis

The KY pipe computer file for the base model was supplied by Fort Bliss and was developed for a previous study performed by Texas A&M University in March of 1991. The total peak day demand in the modeling was 11.13 MGD. The base file with the 11.13 MGD peak day demand was modified to reflect future growth in the water system. Point source demands for the Van Horn and Logan Heights Additions were added to the model. The peak day water consumption used for Van Horn and Logan Heights are 0.80 MGD and 1.95 MGD respectively. Also, the water demand at the Hospital was increased by 25 percent. The total peak day demand model was 13.89 MGD.

Several different demand conditions were modeled with the Fort Bliss water distribution system model for steady state conditions including:

- Peak Day Demands
- Peak Day Demands with all pumps off
- Maximum Hour Demands (using a 1.7 peak day to maximum hour ratio)
- Tank Filling during Low Demand Periods (using a 0.70 peak day to late evening/early morning demand ratio)

For the demand conditions listed above several scenarios were evaluated to further refine the system. Peak day and maximum hour demands were modeled with existing pumping capabilities and

proposed pumping replacements. Several iterations were performed for the tank filling scenario to evaluate the existing pumps and the ability of the system to fill the tanks and provide supply to the system. From analysis of the computer modeling and calculations it was determined that additional pumping and storage capacity would be necessary to operate the system as proposed. Specific details of the system, pumps and tanks are discussed below.

a. System

The pressure in the system ranged from the low 20's to the upper 80's, in psi. The middle pressure plane consistently had the lowest pressures. The nodes on the suction side of the pump stations had pressures between 3 and 8 psi for all demand conditions. Since no services are connected near these areas, this condition is acceptable. Logan Heights and Van Horn Additions were modeled as point source loads on the system. The model indicated very low pressures at these points. It is assumed these areas will have booster pumps and possibly multiple taps to the system to adequately boost pressures.

Head losses varied across the system. One line was identified for replacement due to high head losses. The 10 inch line from Tank 7090 parallel to Fred Wilson Road, then following Sternberg to Tank 7241 needs to be increased to a minimum of 12 inches.

b. Pumping

With the system changes of additional storage tanks and pumping occurring outside the hours of 10:00 am and 3:00 pm the ability of the system to refill the storage tanks becomes critical. The amount of pumping required for the tank filling consists of supply for the pressure plane, the supply demand for the next pressure plane, and supply to replenish the storage tanks. The tank filling pumping rate was determined for each pressure plane and compared to flowrate into each tank determined in the computer model. The middle and lower pressure plans are deficient in pumping capacity.

Computer models including the proposed new, larger pumps were made to evaluate the system for peak day, maximum hour and tank filling. The proposed pump replacements result in

adequate pressures and flows, and the tanks can be refilled in a reasonable amount of time.

The flowrates determined in each of the modeling scenarios were used with projected demands to analyze the system hourly for a 24 hour period. This data is presented in the Tank balance tables contained in Appendix G. The flowrates into the tanks were used in the Tank balance sheets and the hourly pumping rate was used for the outgoing storage. The outgoing storage flowrates exceeded the demand requirements in the model. Therefore the pumping from the tanks is adequate for all conditions modeled.

c. Tanks

The tank balances discussed in the previous section were also used to determine the amount of storage capacity required. It has been assumed that the tanks are to maintain one-half capacity or greater, as directed by Fort Bliss Public Works. From the water storage balance prepared for Tank 7241, 1.1 MG of capacity is required to operate between full and its projected lowest point of 554,667 gallons. The storage balance prepared for the Tank 7090/7088 operates between full (2.5 MG) and its projected lowest point of 1.7 MG. A storage balance for the lower pressure plane indicates elevated storage of 4.5 MG is required, and 4.6 MG is currently available. Therefore, additional elevated storage is not necessary in the lower pressure plane. A storage balance was also performed for the upper pressure plane indicating the 1.0 MG of storage was adequate.

A storage balance was performed for the storage tanks fed by the wells. It is contained in Appendix G. The storage does not balance at the end of 24 hours. Therefore, on a peak day condition the tanks will have a loss of capacity of 203,000 gallons at the end of the day. An analysis of the well pumping and well storage was not a part of this contract. However, this condition may be acceptable to the Public Works Department or replacement of a well pump may be possible.

4. Results

Additional water storage capacity of 0.75 MG is recommended in the vicinity of Tanks 7241, to supply the upper pressure plane with ground

storage and provide elevated storage to the middle pressure plane. Additional water storage capacity is recommended in the vicinity of Tanks 7090/7088, to provide ground water supply to the middle pressure plane in the event supply from the lower pressure plane is interrupted. Interruption of the supply could include a broken pipeline, inoperative pumps, or if supply to the lower pressure plane was temporarily interrupted.

Additional pumping of 1200 gpm is needed to refill the proposed tank near Tank 7241. Since no pumping will occur during the hours of 10:00 am to 3:00 pm, the meeting of the domestic demands as well as filling of storage tanks is required in the remaining hours. In order to refill all the elevated storage in the lower pressure plane and Tanks 7090/7088 and the proposed .25 MG tank and additional pumping of 3500 gpm is required at the Pike Pump Station.

A summary of the recommended water system capital improvements required for electrical peak shaving is listed in the table below.

Summary of Capital Improvements for Water Distribution System	
Improvement	Location
New 0.75 MG Storage Tank	Middle Pressure Plane (near tank 7241)
Replacement of pump #2 with 2800 gpm pump	WBAMC Station #7242
Replacement of 10" line with 12" line (approx 3300 LF)	Service line from 7090 to 7241
New .25 MG Storage Tank	Middle Pressure Plane (near tanks 7088/7090)
Replacement of pump #2 with 5800 gpm pump	Pike Station #1318

E. Analysis Of Previous Studies

The previous studies below, as well as the Carter & Burgess study conducted February 1993, were referenced and evaluated in the preparation of this report.

Reference No. 1. Fort Bliss Water Distribution System Analysis and System Operations, prepared by Wesley P. James and Veronica Morgan, Department of Civil Engineering, Texas A&M University, College Station, TX 77843.

Reference No. 2. Energy Savings Opportunity Survey, Fort Bliss, Texas, Water Distribution Study, prepared by Williams E. Evers, Jr., P.E., EDM Engineering, St. Louis, MO 63101.

Reference No. 1 was conducted to ensure that the existing water distribution system is adequate to maintain acceptable pressures during peak hour operation plus fire demand. The report concluded that a minimum pressure of 27 psi would occur during the peak day plus fire demand.

Reference No. 2, which is similar to this study. Analyzed methods of peak shaving as follows;

- 1) Addition of diesel pump sets to be utilized during on-peak periods.
- 2) Addition of 7-8 million gallons of storage capacity to allow for off-peak pumping only.

This report concluded that neither option was feasible and both resulted in savings to investment ratio's of less than 1.0. However, this study used demand charges of \$16.03 per kilowatt (KW) for the first 10,000 KW and \$15.72/KW thereafter. The current electrical demand charge for Fort Bliss (ECO'S) is \$21.50/KW for all KW.

F. Analysis Of Energy Conservation Opportunities (ECO's)

1. Increase Storage Capacity (Alternative #2)

The addition of 1.0 million gallons of storage tank capacity was analyzed. The existing storage capacities for all of the tanks at Fort Bliss are listed in Appendix F. The size and location of the new storage tanks were based on the results of the KY pipe analysis discussed and are as follows;

wBAMC:	Middle	.75 MG
	Lower	<u>.25 MG</u>
Total		1.0 MG

This additional storage capacity will allow the well and booster pumps to be shut-off during on-peak utility periods. The existing Williams Electric Control system would be utilized to disable the pumps during specified peak periods. Software changes only would be required to accomplish the added functions using the existing control system.

G. Life Cycle Cost Calculations

The Life Cycle economic feasibility of the existing system in comparison with the peak shaving method described above was calculated using the Blast, Life Cycle Cost In Design (LCCID) program. This program with the ECIP option utilized the energy consumption calculated and included in Appendix C and E. Data for the LCCID Feasibility study are as follows:

1. Construction Cost Estimate

The probable construction cost estimates for the two ECO alternatives are as follows:

Alternative	Investment
1 - Existing System	-0-
2 - Additional Storage	\$558,932

Refer to Appendix J for the detailed probable cost estimate.

2. Maintenance Cost Estimate

The Maintenance Cost difference with Alternative #1 as the baseline for the two ECO alternatives are as follows:

Alternative	Annual Maintenance Cost
1 - Existing System	-0-
2 - Additional Storage	\$1,178

Refer to Appendix K for Maintenance Cost Calculations.

3. Replacement Cost Estimate

The Replacement Cost Estimate assumes the concurrent salvage value is zero (\$0.00).

a. Tank Replacement Costs

Tank life is expected to be a minimum of 40 years based on numerous existing steel tanks which were constructed between 1910-1954 which are still in use; therefore, the replacement cost for the additional tanks is assumed to be zero dollars (\$0.00).

4. Final Salvage Value

The Final Salvage Value for all systems is assumed to be zero dollars (\$0.00).

5. Utility Rates

Utility Type	Utility Cost	Site Cost
Electricity Usage	\$0.00764/KWH	\$2.24/MBTU
Electrical Demand	\$21.50/KW	.
Natural Gas	\$2.58/KCF	\$2.50/MBTU

The utility costs were furnished by El Paso Electric and Southern Union Gas. The site cost was obtained using a Conversion Factor of .003413 MBTU/KWH and 1.031 MBTU/KCF.

6. Refer to Appendix E for the ECIP Life Cycle Cost Analysis Summary Sheets for Alternative 2.

H. Conclusions

The results of this study indicate that increased storage capacity for the Fort Bliss Water Distribution System will result in an SIR of 1.45, a simple payback of 9.3 years and an negative Adjusted Internal Rate of Return (AIRR) of 6.0%.

I. Recommendations

The recommendation resulting from this study is for Fort Bliss to install the storage capacity, pumping capacity and increased piping recommended herein. Also, Fort Bliss should make the necessary changes to the Williams Electric Controls System to ensure that air pumps are scheduled 'off' between the hours of 10:00 am and 3:00 pm.

Carter & Burgess' assessment was performed using the degree of care and skill ordinarily exercised, under similar circumstances, by professional consultants. The findings of this study are based on the information available at the time. The results and recommendations presented in this report could be affected by items such as those listed below.

- Availability of more detailed historical water use records, particularly tank level records.
- Major changes in the water demands in Fort Bliss and William Beaumont Army Medical Center systems
- Changes in the location or intensity of growth and development within Fort Bliss
- Regulatory changes enacted after publication of this report

2. Criteria

1. OCE Architectural and Engineering
Instructions Design Criteria
November 20, 1990
2. Memorandum CEHSC-FC-M
Energy Conservation Investment Program (ECIP)
Guidance
November 4, 1992
3. TM 5-802-1
Economic Studies for Military construction Design Applications
December 1986

APPENDIX A - Utility Rate Schedules

66-17-1997 07:55

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EPE R

PUBLIC UTILITIES COMMISSION ST 123
APPROVED

VAR 09 '92 DOCKET 9945

CONTROL # 0462
TARIFF CLERK

EL PASO ELECTRIC COMPANY

SCHEDULE NO. 31
MILITARY RESERVATION SERVICE RATEAPPLICABILITY

Available to United States Army for Fort Bliss Main Post Area for a minimum contract capacity of 10,000 kilowatts. All service will be taken at the point of delivery designated by the Company.

TERRITORY

El Paso County, Texas

TYPE OF SERVICE

Service will be alternating current 60 hertz, three phase at the transmission voltage of 115,000 volts.

MONTHLY RATE

Demand Charge

\$21.50 per kilowatt for the first 10,000 kilowatts or less of Demand (1)

\$21.50 per kilowatt for all additional kilowatts of Demand (1)

Energy Charge

\$0.00764 per kilowatt-hour for all kilowatt-hours (1)

MONTHLY MINIMUM

Demand charge for the Minimum Contract Capacity of 10,000 kilowatts or the applicable minimum demand charge, whichever is greater.

DETERMINATION OF DEMAND

Maximum demand will be defined as the highest measured thirty (30) minute average kilowatt load determined by measurement. The measured demand will be adjusted for billing when the metering adjustment clause is applicable. (1)

The demand used for billing shall never be less than 75% of the highest measured on-peak demand (adjusted for metering adjustment) established during billing months May through October in the twelve (12) month period ending with the current month, nor less than the minimum contract capacity, whichever is greater. The exception to this will occur when the 1/2 on-peak - 1 1/2 off-peak provision is invoked. At that time, the measured billing demand shall be used for the purpose of this paragraph.

When the demand established during the on-peak period exceeds the demand established during the off-peak period, the demand used for billing will be 1/2 the on-peak period demand plus 1/2 the off-peak period demand.

On-peak period shall be from 10:00 A.M. to 8:00 P.M. Mountain Standard Time for weekdays of Monday through Friday. Off-peak period shall be all other hours of the week not covered in the on-peak period.

Section Number _____
Sheet Number _____

Revision Number _____
Drawing with revision number 1 of 1

EL PASO ELECTRIC COMPANY**SCHEDULE NO. 31
MILITARY RESERVATION SERVICE RATE****BATING PERIOD SELECTION OPTION**

Upon written request by the customer and approval by the Company a customer may shift his 10-hour peak period for billing purposes by two (2) hours around the normally defined on-peak period. The customer may exercise this option twice during a twelve (12) month billing period.

METERED ADJUSTMENT

- A. El Paso Electric Company metering equipment is installed on the low voltage (14.4 KV) side of substation transformation. Therefore, for billing purposes, (1) the metered kilowatt demands shall be increased by 1.035% and (2) the metered kilowatt-hour usages shall be increased by 0.825%. For purposes of this adjustment, the Ben Milam School kilowatt demand and kilowatt-hour usage shall be subtracted from the Fort Bliss kilowatt demand and kilowatt-hour usage before the adjustment.
- B. Ben Milam School. Ben Milam School is located within the Fort Bliss Military Reservation but is a school of the El Paso Independent School District. Presently Ben Milam School is serviced through Fort Bliss facilities. To compensate Fort Bliss for this usage, El Paso Electric Company shall deduct from Fort Bliss' demand billing Ben Milam's actual measured demand and energy each month.

POWER FACTOR ADJUSTMENT

If the power factor at the time of the highest measured thirty (30) minute interval kilowatt demand for the entire plant is below 90% lagging, a charge of \$0.0700 per KVAR will be made for each KVAR by which customer's computed KVAR demand exceeds 48.432% of the measured kilowatt demand. If the power factor is greater than or equal to 90%, then no power factor adjustment will be made. (7)

FIXED FUEL FACTOR

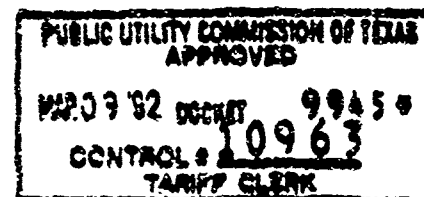
The above rates are subject to the provisions of Company's Tariff Schedule No. 92 entitled Fixed Fuel Factor.

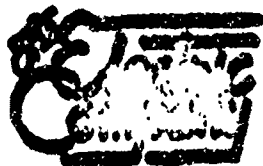
TERMS OF PAYMENT

The due date of the bill for utility service shall not be less than eleven (11) days after issuance. A bill becomes delinquent if not received at the Company by the due date.

TERMS AND CONDITIONS

The Company's Rules and Regulations apply to service under this schedule. The Term of Contract under this schedule shall not be less than ten (10) years.





El Paso Electric Company
P.O. Box 902
El Paso, Texas 79966
(915) 842-8771

January 20, 1993

Mr. Scott Clark
Carter & Burgess Engineering
1100 Macon St.
Ft. Worth, Texas 76102

Dear Scott:

As of the present time, El Paso Electric Company does not have any firm rebate programs in place with the exception of Thermal Energy Storage.

Presently, there are incentive (rebate) programs being developed by El Paso Electric Company and we should have more specifics on these around April, 1993. These rebates may be customized towards energy efficient lighting and energy efficient motors for example.

As soon as more details and specifics are known I will be happy to pass them on to you. But for now, T.E.S. is the only incentive program being offered by El Paso Electric Company.

I hope that the enclosed materials will satisfy your needs. If you should have any further questions please feel free to call us at (915) 843-5609.

Sincerely,

John D. Armstrong
Commercial Utilization Specialist



Southern
Union Gas

Requested Transmittal Time: _____

Transmitted by: _____

Date: Aug 14 1982

GASFAX

To: Scott Clark

Company/Region: _____

FAX No. 817-877-5646

Phone No. _____

From: John R. DavisMessage: Rate Schedule 1A. Cost of gas adj.
is expected to increase by 21 cent
month. or 10¢/MCF.

This facsimile consists of 4 pages including this form letter.
If you do not receive all the pages of this transmission, PLEASE
CONTACT OUR TELECOPIER OPERATOR IMMEDIATELY.

Southern Union Gas
West Texas Region - El Paso
P. O. Box 2040
El Paso, TX 79976-2040
(915) 544-6300
FAX: (915) 521-4560

SOUTHERN UNION GAS COMPANY
Rate Sheet
EL PASO, TEXAS

Texas Tariff - West Texas
Section 3
Rate Schedule No. E5

D SERVICE AREA _____
GSM 702-701 6-70

FORT BLISS RATE**APPLICABILITY**

Applicable to the United States Government for all purposes at Fort Bliss, William Beaumont General Hospital, Biggs Field, Logan Heights, The First Cavalry Brigade Area, the Station Hospital, Permanent Troop Housing and Supporting Facilities and AFF Board No. 4 and Guided Missile Group and Training Facilities located east of Jeb Stuart Road.

RATE

During each monthly billing period the sum of items 1 and 2 below:

1. **Cost of Service Charge:**

All Gas @ \$.0258 per Ccf @ 14.9 PSIA.

2. **Cost of Gas Charge:** In addition to the Cost of Service set forth above, Ft. Bliss billing shall include an amount equal to the Cost of Gas per billing month as determined in accordance with Rate Schedule No. 1-1. Cost per Ccf will be determined at 14.9 PSIA and multiplied by total Ccf consumed during the billing month.

CONDITIONS

1. In case of shortage of natural gas supply, or any other emergency not due to fault of the contractor, deliveries of gas hereunder may be curtailed in accordance with contractor's program of curtailment applicable to its consumers in the City of El Paso and Environs.
2. Volume of gas shown by meter readings will be corrected to 14.9 pounds per square inch absolute. Atmospheric pressure is agreed to be 12.8 pounds.
3. Subject to existing contract.

Supersedes same sheet dated 08/01/90

AUG-14-92 FRI 14:30

SOUTHERN UNION GAS CO.

FAX NO. 9155214560

P. 03

SOUTHERN UNION GAS COMPANY
Rate SheetTexas Tariff - West Texas
Section 3
Rate Schedule No. 1ASERVICE AREA El Paso

SOUTHERN UNION

ADJUSTMENTS TO BASIC RATE
City of El Paso, Texas and El Paso Environs

The following adjustments shall be applied to the price for each Ccf delivered to customers served by the West Texas Region in the El Paso County rate area (including the towns of Anthony, Winton and Clint, Texas), under the basic rate schedules indicated below:

Basic Rate Schedules	Basic Rate Effective Date	Customer Class	Previous Adjustment	Change In Adjustment	Total Present Adjustment
10	01/15/92	Residential Service Rate	\$.1362	\$.0000	\$.1362
20	01/15/92	Commercial Service Rate	\$.1362	\$.0000	\$.1362
21	01/15/92	Commercial Air Conditioning Service	\$.1362	\$.0000	\$.1362
25	01/15/92	Public Authority Rate	\$.1362	\$.0000	\$.1362
26	01/15/92	Public Authority Air Conditioning Service	\$.1362	\$.0000	\$.1362
27	01/15/92	Municipal Water Pumping Rate	\$.1362	\$.0000	\$.1362
30	01/15/92	Irrigation Rate	\$.1362	\$.0000	\$.1362
40	01/15/92	Industrial Service Rate	\$.1362	\$.0000	\$.1362
41	01/15/92	Industrial Air Conditioning Service	\$.1362	\$.0000	\$.1362
12	04/01/91	Residential Service - El Paso Environs	\$.1362	\$.0000	\$.1362
22	04/01/91	Commercial Service Rate El Paso Environs	\$.1362	\$.0000	\$.1362
2A	04/01/91	Commercial Air Conditioning Environs	\$.1362	\$.0000	\$.1362

Supersedes Same Sheet Dated 04/29/92

Meters Read On and After

AUG-14-92 FRI 15:37

SOUTHERN UNION GAS CO.

FAX NO. 9155214560

P.04

SOUTHERN UNION GAS COMPANY
Rate SheetTexas Tariff - West Texas
Section 3
Rate Schedule No. 1ASERVICE AREA El Paso

UNITED-NAT 15-74

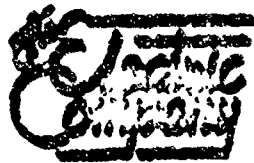
ADJUSTMENTS TO BASIC RATE
City of El Paso, Texas and El Paso Environs
(Continued)

2E	04/01/91	Public Authority Rate El Paso Environs	\$.1362	\$.0000	\$.1362
2F	04/01/91	Public Authority Air Conditioning Environs	\$.1362	\$.0000	\$.1362
2G	04/01/91	Municipal Water Pumping Rate-El Paso Environs	\$.1362	\$.0000	\$.1362
3Z	04/01/91	Irrigation Rate El Paso Environs	\$.1362	\$.0000	\$.1362
4Z	04/01/91	Industrial Service Rate-El Paso Environs	\$.1362	\$.0000	\$.1362
4A	04/01/91	Industrial Air Conditioning Environs	\$.1362	\$.0000	\$.1362
C1	08/07/88	Electrical Cogeneration Energy Conservation	\$.1362	\$.0000	\$.1362
E5	08/01/90	Fort Bliss	\$.1493	\$.0000	\$.1493

Supersedes same sheet dated 04/29/92

Water Read On and After

APPENDIX B - Fort Bliss Base Utility Bills



El Paso Electric Company
P.O. Box 982
El Paso, Texas 79962
(915) 543 5711

September 18, 1992

RECEIVED
SEP 22 1992

Mr. Scott Clark
Carter & Burgett Engineering
1100 Macon St.
Ft. Worth, Texas 76102

Dear Scott:

Enclosed are the materials that you had requested regarding Ft. Bliss. I have provided you 20 months of billing information and 18 months of load data.

The load data are provided in four separate files. These files are named Bliss1, Bliss2, Bliss3 and Bliss4 with the .WK3 extension and are described by the following:

1. Bliss1.WK3 - March 1, 1991 to June 30, 1991 on 30 minute intervals.
2. Bliss2.WK3 - July 1, 1991 to December 31, 1991 on 30 minute intervals.
3. Bliss3.WK3 - January 1, 1992 to April 31, 1992 on 30 minute intervals.
4. Bliss4.WK3 - May 1, 1992 to August 31, 1992 on 30 minute intervals.

Also, there is an accompanying sheet providing the times and dates of system peak information. Demands occurring at these times for Ft. Bliss would be the facility's coincident peak demands.

I hope that the enclosed materials will satisfy your needs. If you should have any further questions please feel free to call me at (915) 543-5809.

Sincerely,

John D. Armstrong
Commercial Utilization Specialist


















DEMAND: 28,386 KW @ \$21.50/KWH
FACTOR ADJUSTMENT BASED ON 19,128 KW/M

INSTRUMENT: 14.980.478 DATE: 50.01441/2001

[illegible]

TOTAL AMOUNT DUE

TOTAL AMT DUE \$981,471.50

PLEASE RETURN THIS COUPON WITH
YOUR PAYMENT TO

CHARGES OF \$981,471.52 ARE DUE BY 9/23/92.

F TEXAS UTILITY GROSS RECEIPTS ASSESSMENT EQUALS 1/6 OF 1%.

0654 507 11 055. 11
2002 000 001
GROSS TOTAL 2002 000 001
EL PASO ELECTRIC COMPANY

王

DEPARTMENT OF THE ARMY
DIR OF INSTAL SUPPORT
AT7C 15E H BLDG 1288
FORT BLISS TX 79916

\$614,018.50
\$399.25

96 AM'0625

TOTAL APT. FEE \$992.00'S. IN
PLEASE RETURN THIS PORTION WITH
YOUR PAYMENT TO
EL PASO ELECTRIC COMPANY
ATTN: NEWBORN PROCEEDING
PO BOX 20040
EL PASO TEXAS 79960

5992, 605-70

THE PROTEST

AGES OF \$992,805.70 ARE DUE BY 6/24/92. CURRENT CHARGES NOT PAID BY THE INTX.
TO A 5 PERCENT LATE PAYMENT PENALTY.

TOTAL AMT DUE \$992,815.74
PLEASE PRINT YOURS FORKING WILL



PHONE (915) 343-5111

VICE: 14,427,009 BLDG @ \$0.00764/WM
TED RM " 1,30874 " (14,313,600 - 4,640)

DEMAND: 27,599 RM @ \$21.50/RM
CFOR ADJUSTMENT BASED ON 17851 KVAR

DEPARTMENT OF THE ARMY
DIR OF INSTAL SUPPORT
ATTN: 15E-M BLDG 1288
FORT BLISS TX 79916

DEBTMENT: 14,427,009 BLDG @ \$0.02441/WM

TOTAL											
DATE		POWER METER		REAR ID		BLDG		FROM		TO	
31		84		27599		27599		5-29-92		6-30-92	
DATE		POWER METER		REAR ID		BLDG		FROM		TO	
6-30		03425		03425		03425		5-29		6-30	
6-30		02734		02734		02734		5-29		6-30	
6-30		00352		00352		00352		5-29		6-30	
6-30		03725		03725		03725		5-29		6-30	
TOTAL		27312		27312		27312		OFF PEAK		26530	
UNIT OF THE ARMY											
INSTALL SUPPORT											
2-W BLDG 1200											
1SS TX 79916											
TOTAL AMOUNT DUE											
\$911,815.30											
CURRENT ELECTRIC SERVICE											
SHEET NO 7460 RATE CASE EXPENSE											
DOCKET NO 9945 RATE CASE EXPENSE											
CURRENT SERVICE											
DOCKET NO 7460											
DOCKET NO 9945											
TOTAL AMT DUE											
\$952,205.30											
ALCOA											
MAY 18											
2146150001											



EL PASO ELECTRIC COMPANY
PHONE (945) 543 5711

DEPARTMENT OF THE ARMY
DIR OF INSTAL. SUPPORT
ATTN:ATTC-1SE-W BLDG128C
FT BLISS TX 79916

TO: 11,471,305 RMH @ \$0.00750/RMH
2D CASH - 1.00025 x (11,350,000 - 12,000)

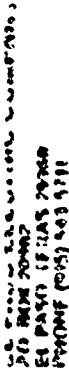
AMOUNT: 24,766 RMH @ \$21.50/RMH
OR ADJUSTMENT BASED ON 14,755 RVAR

TOTAL: 11,471,305 RMH @ \$0.01441/RMH

TOTAL				FORT BLISS		FORT BLISS		214615000	
DATE	PRINTER LOC NO	DEMAND OR ADJUST	AMOUNT	DATE	NO	DATE	NO	DATE	NO
5-29	06	24584	24766	4-30-92	5-29-97	5-29-97	5-29-97	5-29-97	5-29-97
5-29	07971			4-30	02604	4-30	02604	4-30	02604
5-29	02337			4-30	02029	4-30	02029	4-30	02029
5-29	00352			4-30	00352	4-30	00352	4-30	00352
5-29	03613			4-30	03291	4-30	03291	4-30	03291
OFF PEAK RMH - 23036				CURRENT SERVICE		CURRENT SERVICE		CURRENT SERVICE	
				CLOCKET NO 7460		CLOCKET NO 7460		CLOCKET NO 7460	
				CLOCKET NO 9945		CLOCKET NO 9945		CLOCKET NO 9945	
				PREVIOUS UNPAID BALANCE		PREVIOUS UNPAID BALANCE		PREVIOUS UNPAID BALANCE	
				TOTAL AMT DUE		TOTAL AMT DUE		TOTAL AMT DUE	
				\$627,082.43		\$627,082.43		\$627,082.43	

AMOUNTS OF \$626,082.43 ARE DUE BY 6/23/92.

EL PASO ELECTRIC COMPANY
ATTN: FLOWMETER PROCESSING
PO BOX 20982
EL PASO TEXAS 79960



EL PASO ELECTRIC COMPANY

DEPARTMENT OF THE ARMY
DIR OF INSTN. SUPPORT
ATTN:ATTC-1SE-N BLC1208
FT M. ISS TX 79916

*** SERVICE:** 11,436,015 KWH @ \$0.00764/KWH
ADJUSTED KWH = 1,00025 * (11,356,800 - 14,360)

LINC DEMAND: 23,762 MW @ \$21.50/MW
24 FACTOR ADJUSTMENT BASED ON 13837 KW/MS

. ADJUSTMENT: 11.436,015 RMH @ 50.01441/1000H

[illegible]

IF CHARGES OF \$803,685.56 ARE DUE BY 5/22/92.

PLEASE RETURN THIS PORTION WITH
YOUR PAYMENT TO

EL PASO ELECTRIC COMPANY
ATTN: REVENUE PROCESSING
P.O. BOX 30982
EL PASO, TEXAS 79969

EL PASO ELECTRIC
EL PASO, TEXAS 79960
PHONE (915) 543 5711

El Paso Electric

SERVICE: 12,195,227 @ \$0.007682187/KWH
UNTESTED KWH = 1,00825 @ (12,112,600 - 17,360)

NO DEMAND: 22355 KWH @ \$21.50/KWH

ADJUSTMENT: 12,195,227 KWH @ \$0.01441/KWH

\$93,646.01

480,632.50

175,733.22

DEPARTMENT OF THE ARMY
DIRECTOR OF INSTAL SUPPORT
ATZC-ISE-N BLDG1208
FORT BLISS TX 79916

EL PASO ELECTRIC COMPANY

TOTAL		FORT BLISS		FORT BLISS		TOTAL	
DATE	AMOUNT	DATE	AMOUNT	DATE	AMOUNT	DATE	AMOUNT
00-01	31	22182	91	3-31-92	16000	3-31-92	16000
05	3-31	02270	02270	3-31-92	16000	3-31-92	16000
15	3-31	01719	01719	3-31-92	16000	3-31-92	16000
25	3-31	00352	00352	3-31-92	16000	3-31-92	16000
46	3-31	02932	02932	3-31-92	16000	3-31-92	16000
AK	3-31	22182	22182	3-31-92	16000	3-31-92	16000
TOTAL		TOTAL		TOTAL		TOTAL	
\$750,051.73		\$750,051.73		\$750,051.73		\$750,051.73	
CURRENT ELECTRIC SERVICE		CURRENT ELECTRIC SERVICE		CURRENT ELECTRIC SERVICE		CURRENT ELECTRIC SERVICE	
DOCKET NO 7460 RATE CASE EXPENSES		DOCKET NO 7460 RATE CASE EXPENSES		DOCKET NO 7460 RATE CASE EXPENSES		DOCKET NO 7460 RATE CASE EXPENSES	
DOCKET NO 9945 RATE CASE EXPENSES		DOCKET NO 9945 RATE CASE EXPENSES		DOCKET NO 9945 RATE CASE EXPENSES		DOCKET NO 9945 RATE CASE EXPENSES	
TOTAL AMOUNT DUE		TOTAL AMOUNT DUE		TOTAL AMOUNT DUE		TOTAL AMOUNT DUE	
\$750,521.73		\$750,521.73		\$750,521.73		\$750,521.73	

DEPT OF THE ARMY
R OF INSTAL SUPPORT
2-N BLDG1208
ISS TX 79916

CURRENT ELECTRIC SERVICE
DOCKET NO 7460 RATE CASE EXPENSES
DOCKET NO 9945 RATE CASE EXPENSES

\$750,051.73
31,022.00
9,448.00

CURRENT SERVICE
DOCKET NO 7460
DOCKET NO 9945

TOTAL AMOUNT DUE

\$750,521.73

TOTAL AMT DUE

PLEASE RETURN THIS PORTION WITH
YOUR PAYMENT TO

CHARGES OF \$750,521.73 ARE DUE BY 4/23/92. CURRENT CHARGES NOT PAID BY
ARE SUBJECT TO A 5 PERCENT LATE PAYMENT PENALTY.

EL PASO ELECTRIC COMPANY
ATTN: REVENUE PRODUCTION
PO BOX 7090
EL PASO, TEXAS 79960

El Paso Electric Company

EL PASO ELECTRIC COMPANY
PO BOX 20002
EL PASO, TEXAS 79960
PHONE (915) 542-5711

EL PASO ELECTRIC COMPANY

MAIN SERVICE: 11,158,666 kWh @ \$0.00779
 REQUESTED kWh = 1,00825 x (11,066,000 - 20,640)
 BILLING DEMAND: 23054 kWh @ \$21.50
 FUEL ADJUSTMENT: 11,158,666 kWh @ \$0.01441

DEPARTMENT OF THE ARMY
 DIR OF INSTAL SUPPORT
 ATTN:ATZC-152-N BLDG 1288
 FT BLISS TX 79916
 986,926.01
 495,661.00
 150,796.38

TOTAL \$743,383.39

CONTRACT NO.	DATE	PERIOD	START DATE	END DATE	NO	PORT BLISS	PORT BLISS	21461503
1-1500-01	31	91	22906	23054	1-31-92	2-28-92	21461503	
94905	2-28	01069	01069	01517	352	16,800	5,913,600	
05215	2-28	01382	01382	01074	308	16,800	5,174,400	
02295	2-28	00322	00322	00322	-0-	8,400	0	
02746	2-28	02498	02498	01932	516	40	20,640	
04-PEAK-91	2-28	22906	22906	01932	22576			

AMOUNT OF THE ARMY
 OF INSTAL SUPPORT
 ATZC-152-N BLDG 1288
 BLISS TX 79916

CURRENT ELECTRIC SERVICE
 DOCKET NO. 7460 RATE CASE EXPENSE

CURRENT SERVICE
 DOCKET NO. 7460
 TOTAL DUE \$774,405.39

PLEASE RETURN THIS PORTION WITH
 YOUR PAYMENT TO
 EL PASO ELECTRIC COMPANY
 ATTN: REVENUE PROCESSING
 PO BOX 20002
 EL PASO, TEXAS 79960

EST CHARGES OF \$774,405.39 ARE DUE BY 3/24/92. CURRENT CHARGES NOT PAID
 US DATE ARE SUBJECT TO A 5 PERCENT LATE PAYMENT PENALTY.



EL PASO, TEXAS 79906
PHONE (915) 543 5711

DEPARTMENT OF THE ARMY
DIRECTOR OF INSTAL SUPPORT
ATZC-ISE-M BLDG 1266
FORT MONROE, TX 79916

CUM SERVICE: 12,513,996 KWH @ \$0.00779
 ADJUSTED KWH = 1,000.25 X (12,432,000 ~ 20,420)

\$ 97,434.03

ELLING DEPEND: 2.7744 MM @ \$21.50/MM

510,496.00

PL ADJUSTMENT: 12,513,996 KWH @ \$0.01441/KWH

180,326.68

TOTAL \$788,306.71

DATE MO	DATE DAY	ENTERED LAST NAME	MEASURES	RECEIVED DATE	DATE FROM	TO	SERVICE ADDRESS	SERVICE ADDRESS	ACCOUNT NUMBER
500-01	31	91	23603	23744	12-31-91	1-31-92	FORT BLISS	FORT BLISS	2146150001
905	1-31	01517		12-31	01160	417	16,800	7,005,600	
215	1-31	01074		12-31	00751	323	16,800	5,426,400	
295	1-31	00322		12-31	00322	0	8,400	0	
746	1-31	01982		12-31	01472	510	40	20,400	

		\$788,306.71
TOTAL SERVICE		\$788,306.71
DOCKET NO. 7460		31,022.00
DOCKET NO. 6588		42,962.41
DOCKET NO. 8588 FUEL REFUND		42,962.41
DOCKET NO. 7460 RATE CASE EXPENSES		31,022.00
CURRENT ELECTRIC SERVICE		
RENT OF THE MTR		
CTOR OF INSTAL SUPPORT		

TOTAL AMOUNT DUE	\$776,366.30	TOTAL AMT DUE	\$776,366.30
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**PLEASE RETURN THIS PORTION WITH
YOUR PAYMENT TO**

ENT CHARGES OF \$776.36.30 ARE DUE BY 2/24/92. CURRENT CHARGES NOT PAID BY DUE
 ARE SUBJECT TO A 5 PERCENT LATE PAYMENT PENALTY.

EL PASO ELECTRIC COMPANY
AUTOMATIC REVENUE PROCESSING
PO BOX 20982
EL PASO, TEXAS 79908

EL PASO 11FAS 1996
PHONE (915) 542-5711

3 DEFEND: 23411 NW @ \$20.4818/100

ADJUSTMENT: 12.932.823 3001 € 30.0141/ANNU

DATE RECEIVED:

RECEIVED

DEPARTMENT OF THE ARMY
DIRECTOR OF INSTN. SUPPORT
AT7C-15E-N WLDG 1286
FORT BLISS TX 79916

\$70,689.39

476,508.46

186,361.98

46,358.42

Apr 14 3 33 PM '17

[illegible]

TEST OF THE AGENT

REVIEW OF THE NEED
FOR INSTAL SUPPORT

2007-08-01

7-4 0037 0706 79916
155 71 79916

TOTAL ELECTRIC SERVICE

DOCKET NO 7460 RATE CASE 270082

BUCKET NO 0589 FUEL REPTED

PREVIOUS CREDIT BALANCE

TOTAL AMOUNT DUE

5781.968-75

31,022.00

42,962.9109

1000

\$770,026.94

TOTAL SERVICE \$781,968.25

INVEST NO 7450

BUCKET NO 1180 31.027-11
BUCKET NO 8548 42.962-418

EVERY ONE HAS

TOTAL AMT DUE \$770.026 84

**PLEASE RETURN THIS PORTION WITH
YOUR PAYMENT TO**

EL PASO ELECTRIC COMPANY
ATTN: REVENUE PROCESSING
PO BOX 23982
EL PASO TEXAS 79968

THE

7112925

449,592.00
152,741.39
84,994.18

152,741.39
84,994.18

89,994.18

[illegible]

\$717,270.16

TOTAL AMT DUE \$717,279.16
PLEASE RETURN THIS PORTION WITH
YOUR PAYMENT TO

INANCES OF \$717,279.16 ARE DUE BY 12/30/91. CURRENT CHARGES NOT PAID BY DUE DATE
CT TO A 5 PERCENT LATE PAYMENT PENALTY.

**EL PASO ELECTRIC COMPANY
ATTN: REVENUE PROCESSING
P.O. BOX 20082
EL PASO, TEXAS 79901**

THE

341,539.47

469,267.50
144.73

175,809.68

99,415.53

PRICE: 12,217,490 MM @ \$0.00360/MM
 @ MM = 1.00825 X (12,129,000 - 12,060)

REMARKS: 24065 MM @ \$19.50/MM
FACTOR ADJUSTMENT BASED ON 13637 KVAR

INVESTMENT: 12.217.490 RUB @ 90.01439/10000

WITH TROUBLES:

[illegible]**TOTAL AMOUNT DUE** **\$770,039.52**

TOTAL AMT DUE \$770.039.5:

PLEASE RETURN THIS PORTION WITH
YOUR PAYMENT TO:

CHARGES OF \$770,039.52 ARE DUE BY 11/21/91. CURRENT CHARGES NOT PAID BY DUE DATE
 SUBJECT TO A 5 PERCENT LATE PAYMENT PENALTY.

GET TO A 5 PERCENT LATE PAYMENT PENALTY. IT TAKES 217 DAYS TO REACH 5% OF 12%.

EL PASO ELECTRIC COMPANY
ATM. REVENUE PROCESSING
P.O. BOX 20822
EL PASO, TEXAS 79969

PHONE 978-543-3711

LINE DERIVED: 29710 W01 @ \$19.50/W01

LINE DERIVED: 29710 W01 @ \$19.50/W01

SEA FACTOR ADJUSTMENT BASED ON 19025 KVA

IL ADJUSTMENT: 15,409,649 USD @ 90.01653/USD

DD FORM 1 NOV 65

DEPARTMENT OF THE ARMY
DIRECTOR OF INSAL SUPPORT
ATTC-152-N BLOC 1288
FORT M.153 TX 79916

\$52,392.81

579,345.00

332.71

254,721.50

76,691.52

TOTAL **\$963,483.54**

[illegible]

TOTAL POINTS

5969, 599.13

TOTAL AMT DUE \$969,359.11

ENT CHARGES OF \$926.32; 13 REG. FEE OF 09/23/91; -- CONSENT CHARGES NOT PAID BY DOE.

**RETURN THIS PORTION WITH
YOUR PAYMENT TO**

2025 RELEASE UNDER E.O. 14176

70676209
6015709
443830

00-8095
T.H.E.P.C.
18/11/79

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DEPARTMENT OF THE ARMY
DIRECTOR OF INSTN. SUPPORT
ATZC-ISR-N-BLUG:288
FORT BLISS TX 79916

\$55,878.17
558,505.00
298.72
271,666.53

PRICE: \$6,434,757 PER @ \$0.00340/WH
STOCK: 1.00M25 K (16,304,400 - 4120)

ING DEMAND: 29,395 MW @ \$19.00/MW
A FACTOR ADJUSTMENT BASED ON 10,238 KW/MW

ADMINISTRATIVE: 16,434,757 @ \$0.01853/1000H

[illegible]

DO JIMMYE BRYAN
141 EAGLE STREET
SOUTH BEND, INDIANA 46708-1414

EL PASO ELECTRIC COMPANY
ATTN: NEWBLE PRODUCTS
PO BOX 20902
EL PASO TEXAS 79960

CHARGES OF \$849,178.01 ARE DUE BY 09/12/91.

THE

UNIT DEMAND: 29,806 MT @ \$19.00/MT
 & FACTOR ADJUSTMENT BASED ON 1986-83 KVAR

ADJUSTMENT: 13,449,771 S&S @ \$0.01653/TON

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED

DEPARTMENT OF THE ARMY
DIRECTOR OF INSTAL SUPPORT
AT7C-15E-N BLAG1288
FORT BLISS TX 79916

345.729.23

566,314.00
318.12

222,324.75

TOTAL **\$934,686.10**

[illegible]

\$797,523.69

TOTAL AMOUNT DUE

TOTAL AMT DUE \$797,525.69

PLEASE RETURN THIS PORTION WITH
YOUR PAYMENT TO

COPIES OF 3797, 525.00 ARE DUE BY 07/22/91. CURRENT CHARGES NOT PAID BY DUE DATE SUBJECT TO A 5 PERCENT LATE PAYMENT PENALTY.

EL PASO ELECTRIC COMPANY
ATTN: REVERSE PROCESSING
PO BOX 70402
EL PASO, TEXAS 79968

MANA SERVICE: 12,437,570 MM @ \$0.00340/MM
ADJUSTED MM = 1.00025 x (12,348,000 - 12,200)

\$12,287.74

DEPARTMENT OF THE ARMY
DIRECTOR OF INSTAL SUPPORT

**BILLING RATE: 22.26 MW @ \$19.50/MW
POWER FACTOR ADJUSTMENT BASED ON 100% KWHR**

\$433,407.00
\$29.61

ALICE-137. N 00001100
FOXT ALISS TX 79916

PURCH. ADJUSTMENT: 12,437,570 MM @ \$0.01653/MM

\$205,593.03

Category	Amount
TOTAL	\$681,317.38

[illegible]

TOTAL SERVICE:	\$681,317.3
DOCKET NO 9165	\$5,602.0
DOCKET NO 8588	\$46,962.4
TOTAL AMT DUE	\$544,156.9

54-11317-38

ATTN: CHIEF OF THE ARMY
BATTALION OF INSTAL. SUPPORT
2-15E-X BLJCL288
1 BLISS TX 79916

POCKET NO 9165	DATE CASED	EXPENSE	\$5,802.00
POCKET NO 8538	FUEL REFUEL		\$42,962.41CR

TOTAL INCIDENT INR. **\$644,156.97**

**PLEASE RETURN THIS PORTION WITH
YOUR PAYMENT TO**

INTEREST CHARGES OF \$640,156.97 ARE DUE BY 05/22/91. CURRENT CHARGES NOT PAID BY DATE ARE SUBJECT TO A 5 PERCENT LATE PAYMENT PENALTY.

EL PASO ELECTRIC COMPANY
ATTN: REVENUE PROCESSING
PO BOX 2682
EL PASO, TEXAS 79909

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DEPARTMENT OF THE ARMY
DIRECTOR OF INSTAL SUPPORT
ATTC-ISE-U BLDG 1286
FORT BLISS TX 79916

2,343,407.00

\$171,116.97

[illegible]

PLEASE RETURN THIS PORTION WITH
YOUR PAYMENT TO

EL PASO ELECTRIC COMPANY
ATTN: REVENUE PROCESSING
PO BOX 3082
EL PASO TEXAS 79969

11/11/11

1115 15435711
PH0036(96)5435711
E1 PASO, IL CAS 78069
7-11 PM 0000 00-1

SURVIVE: 10,013,899 KWH @ \$0.00340
STED KWH = 1.00825 x (9,945,600 -13,640)

INC DEMAND: 22,226 - @ \$19.50/TON

ADMINISTRATIVE: 10.013.009 ROM @ \$0.01653/row

\$34,047.26

DIFF-TXN (X) INSTAL SUPPORT

ATZC - LSE - N DLG 1708

FMAT B.I.S.S TX 79916

\$165,529.75

DATE	POWERS FACTOR	REMARKS	REMARKS	REMARKS	DATE	DATE	TOTAL	DATE	REMARKS
31	93	20,504	22,226	1-31-91	2-28-91	2-28-91	632,984.01	1-31-91	214615000
2-28	03231		1-31	04105	336	336		1-31-91	
2-28	08919		1-31	09175	256	256		1-31-91	
2-28	00224		1-31	00224	0	0		1-31-91	
2-28	03214		1-31	03555	341	341		1-31-91	
20,504					037	037		1-31-91	
TOTAL ELECTRIC SERVICE							632,984.01	TOTAL SERVICE	
DOCKET NO 9165 RATE CASE EXPENSE							\$5,802.00	DOCKET NO 9165	
DOCKET NO 8588 FUEL REFUND							\$42,962.41	DOCKET NO 8588	
TOTAL AMOUNT DUE							\$595,823.60	TOTAL AMT DUE	

CHARGES OF \$595,823.40 ARE DUE BY 03/22/91.

PLEASE RETURN THIS PORTION WITH
YOUR PAYMENT TO

[Handwritten signature]

EL PASO ELECTRIC COMPANY
ATTN: REVENUE PROCESSING
PO BOX 20982
EL PASO TEXAS 79960

EL PASO ELECTRIC COMPANY
PO BOX 70907
EL PASO, TEXAS 79960
PHONE (915) 562-5711

EL PASO ELECTRIC COMPANY

SERVIC: 11,067,439 MM @ \$0.00340
 TED MM = 1.00825 x (10,987,200 - 10,120)

DEPARTMENT OF THE ARMY
DIRECTOR OF INSTAL SUPPORT
ATZC-ISE-N BGL1288
FORT BLISS TX 79916

MC DEMAND: 22,226 MW @ \$19.50/MW

5433,407.00
\$182,944.77

ADJUSTMENT: 11,067,439 MM @ \$0.01653/MM

TOTAL \$653,981.06

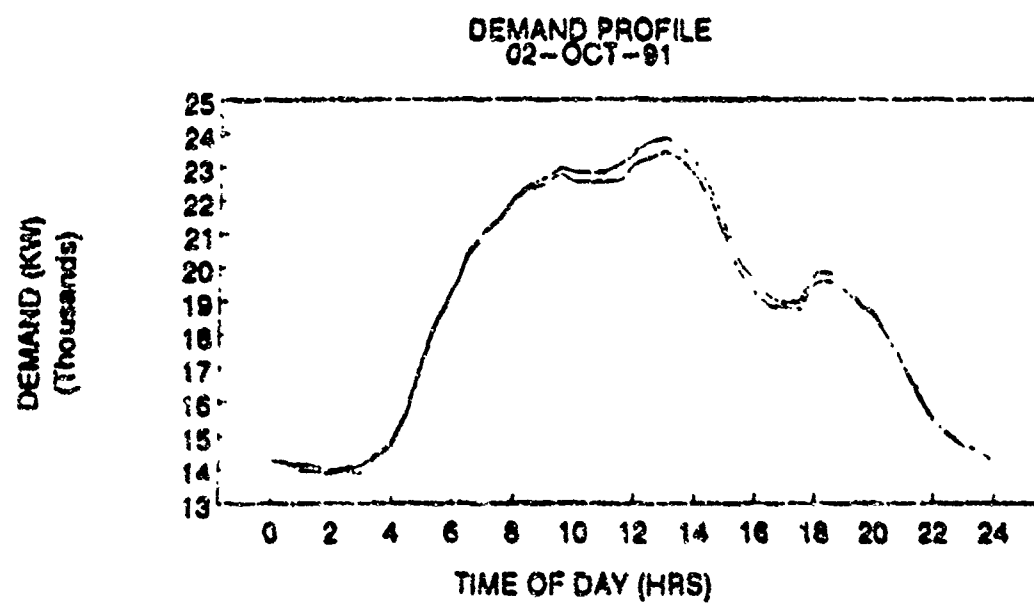
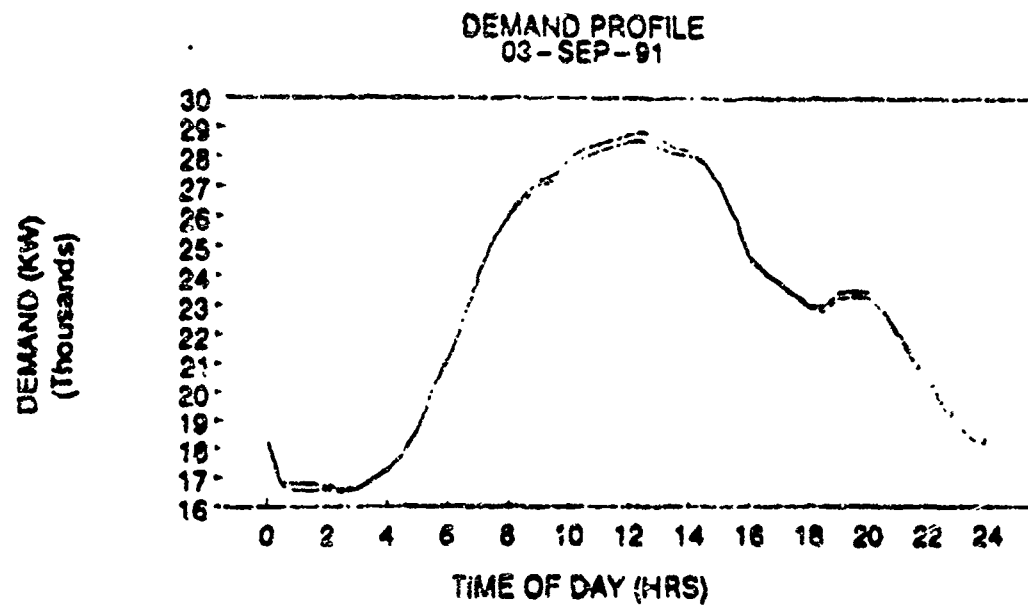
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**PLEASE RETURN THIS PORTION WITH
YOUR PAYMENT TO**

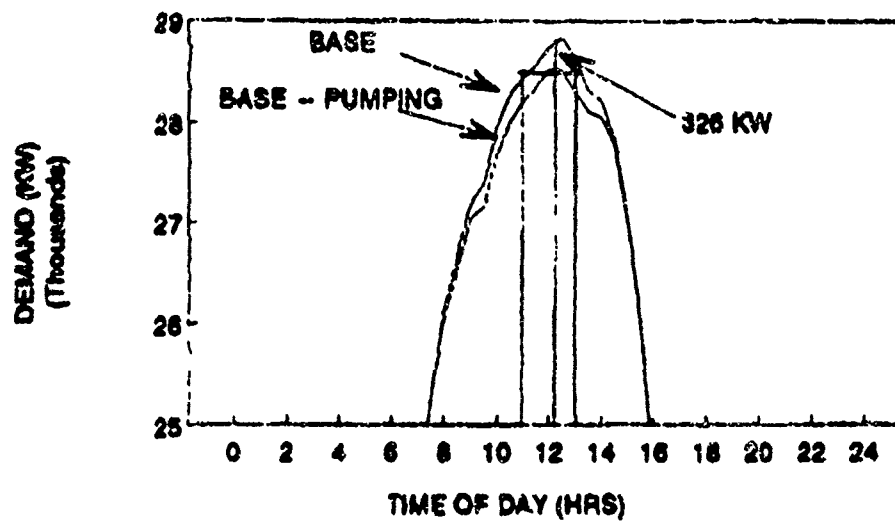
EL PASO ELECTRIC COMPANY
ATTN: REVENUE PROCESSING
PO BOX 20982
EL PASO TEXAS 79960

CHARGES OF \$659,783.06 ARE DUE BY 02/22/91.

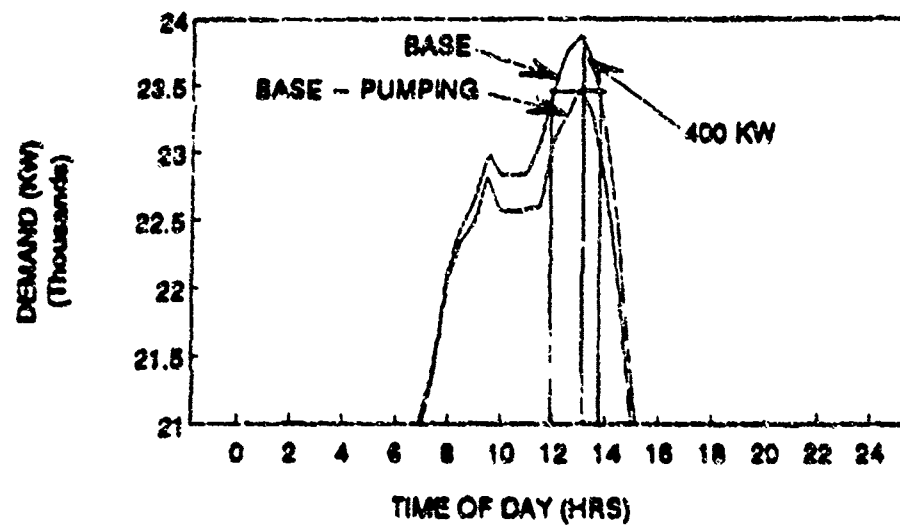
APPENDIX C - Peak Demand Profiles

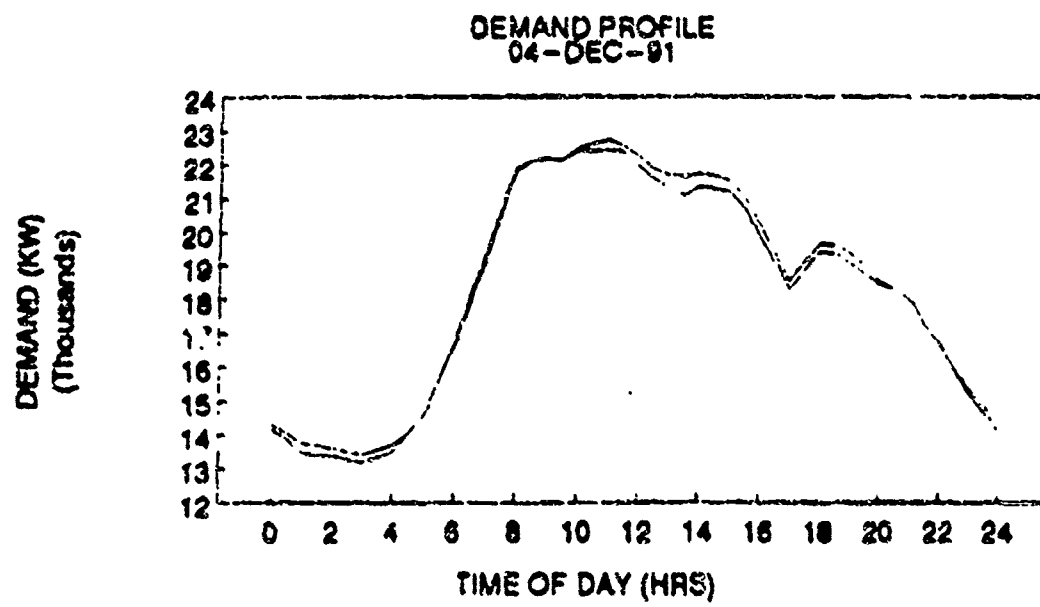
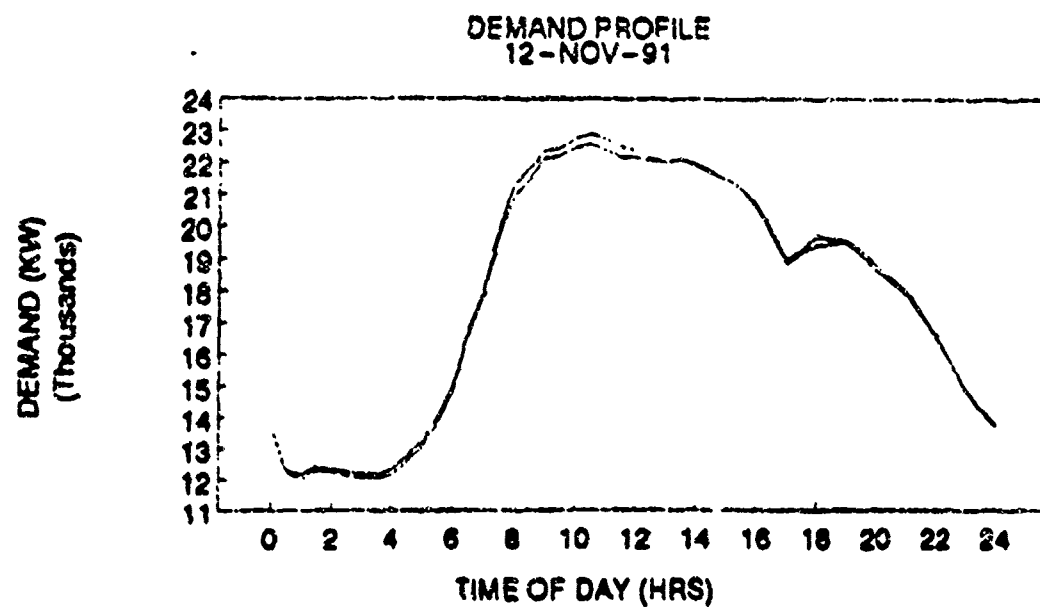


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03-SEP-91

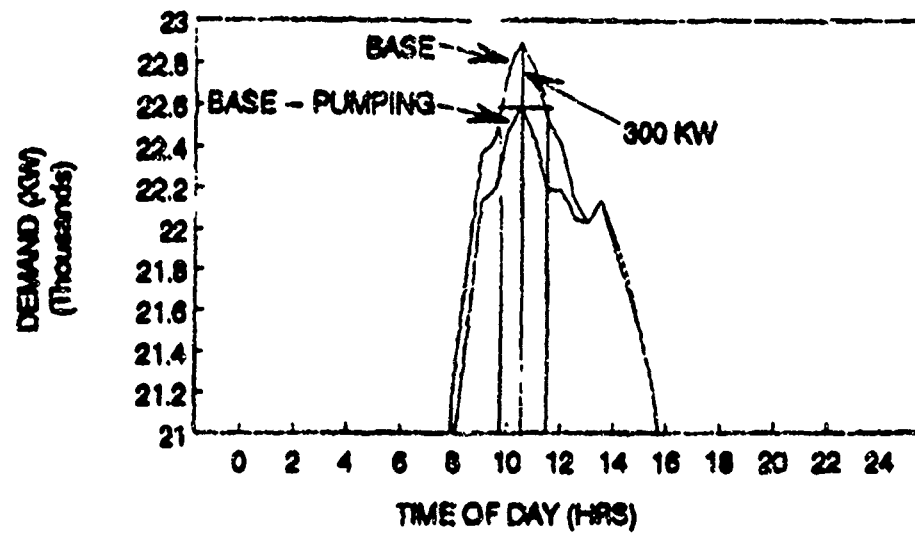


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02-OCT-91

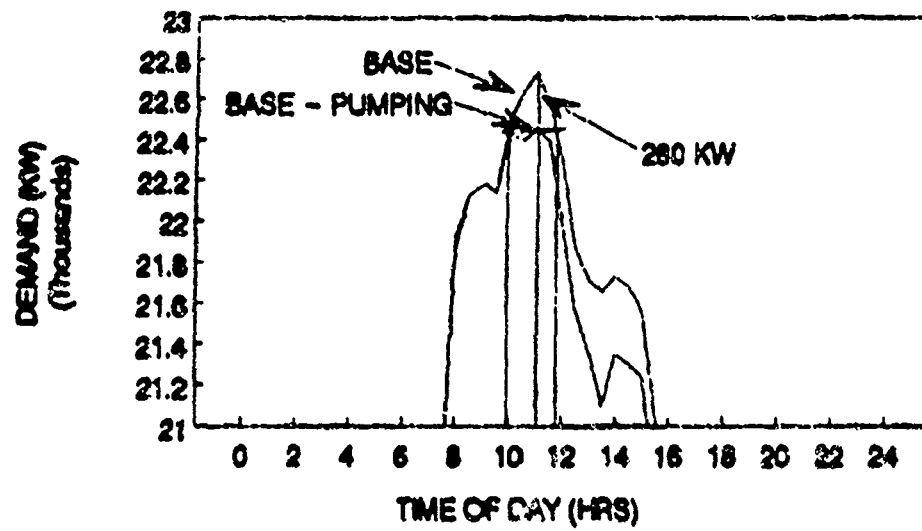


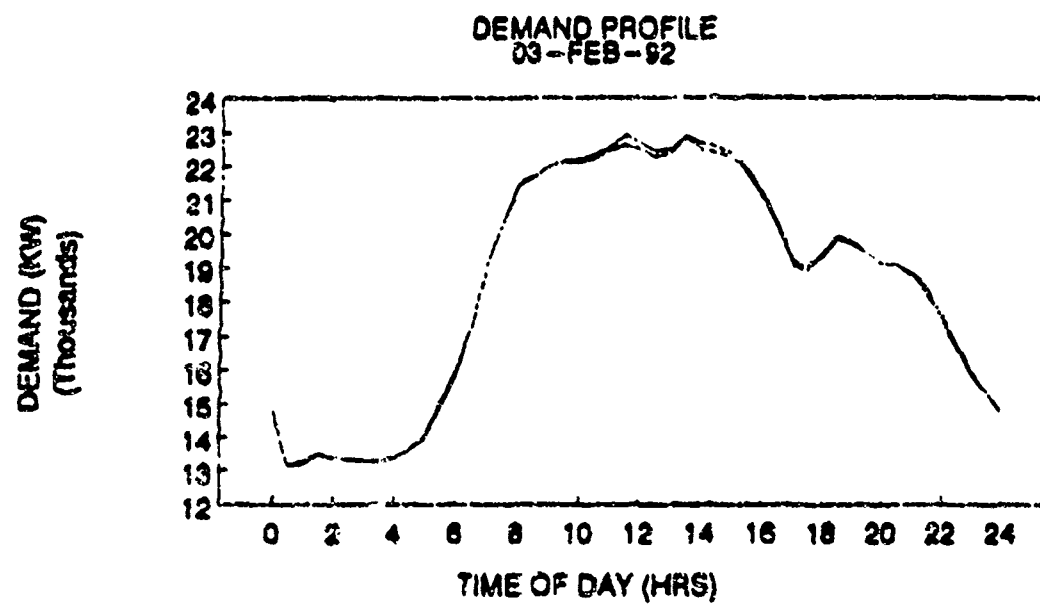
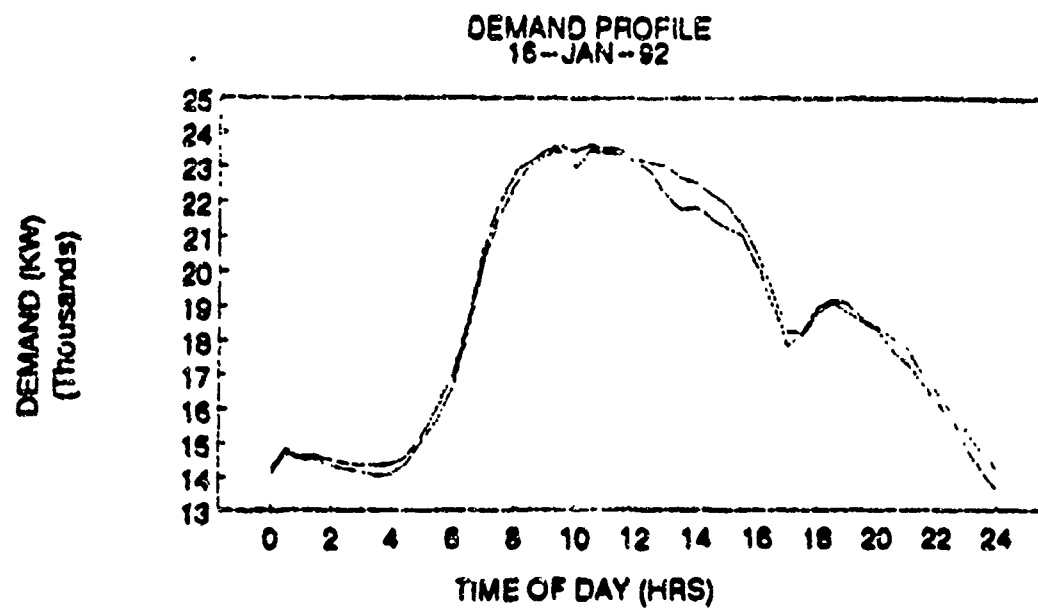


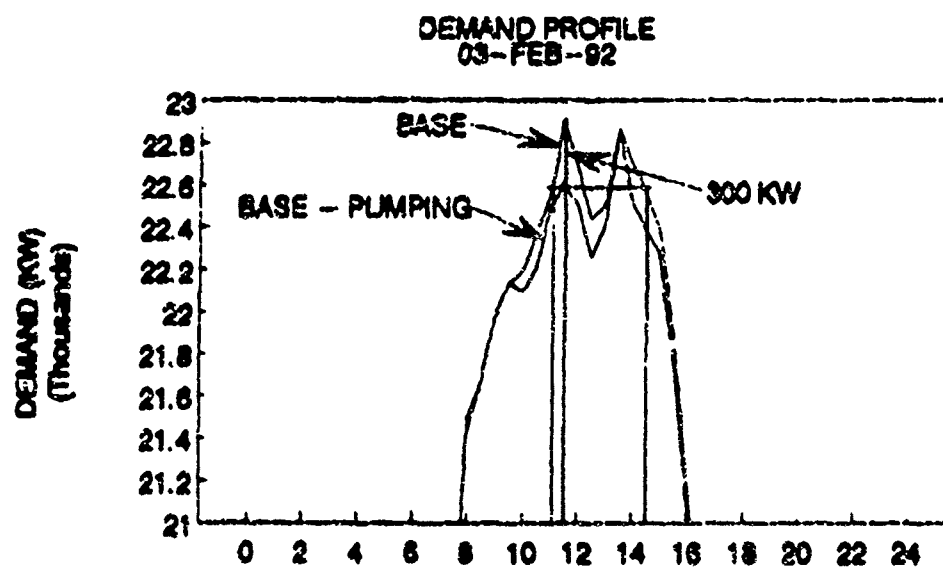
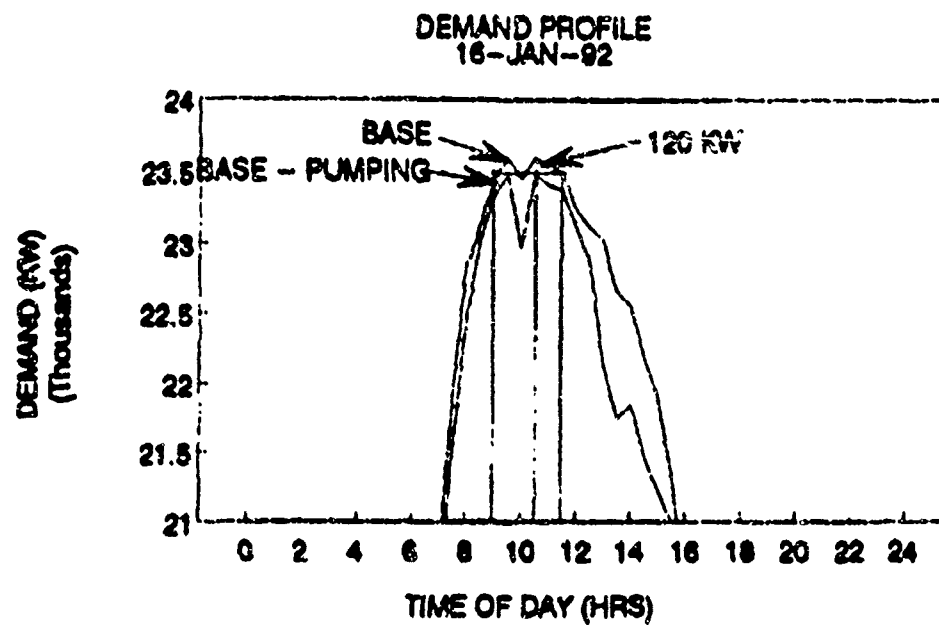
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12-NOV-91

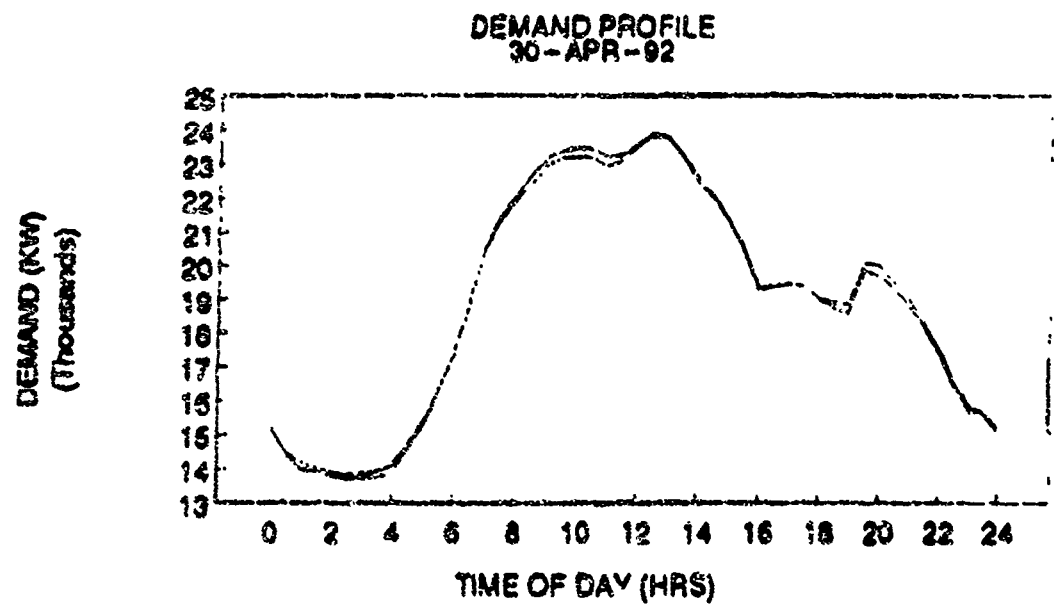
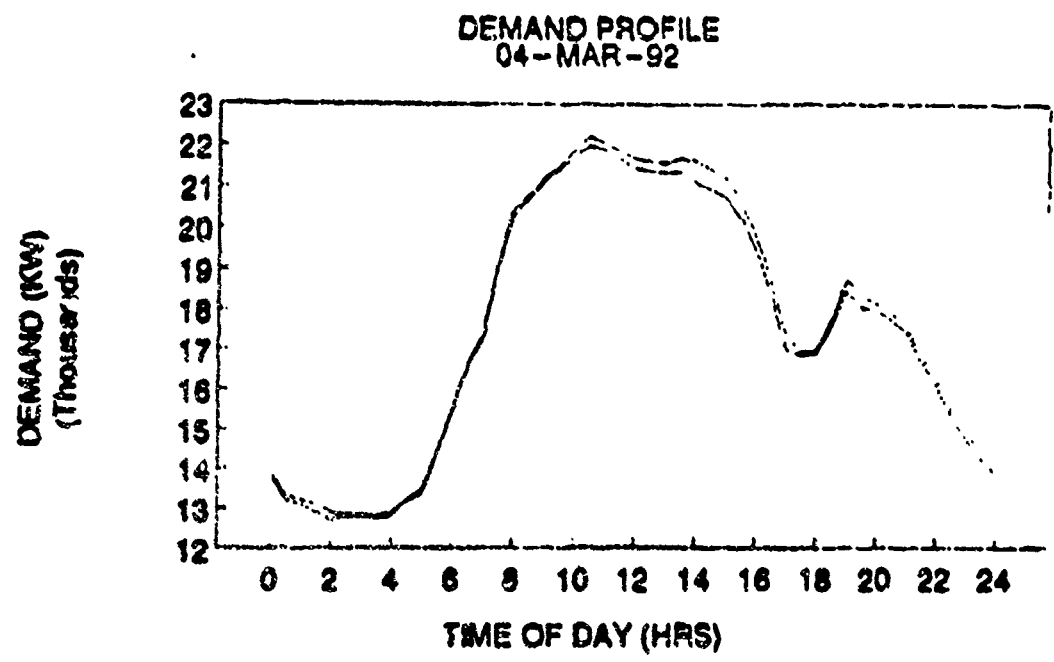


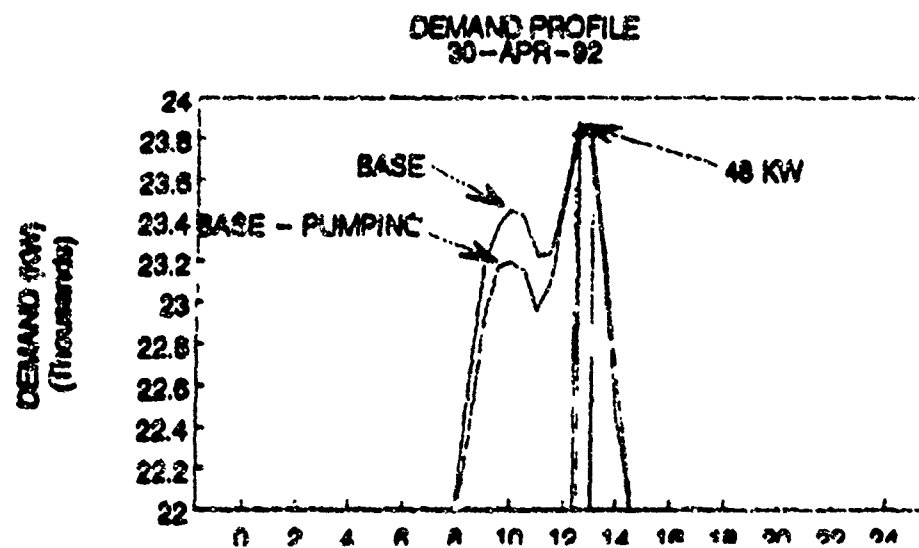
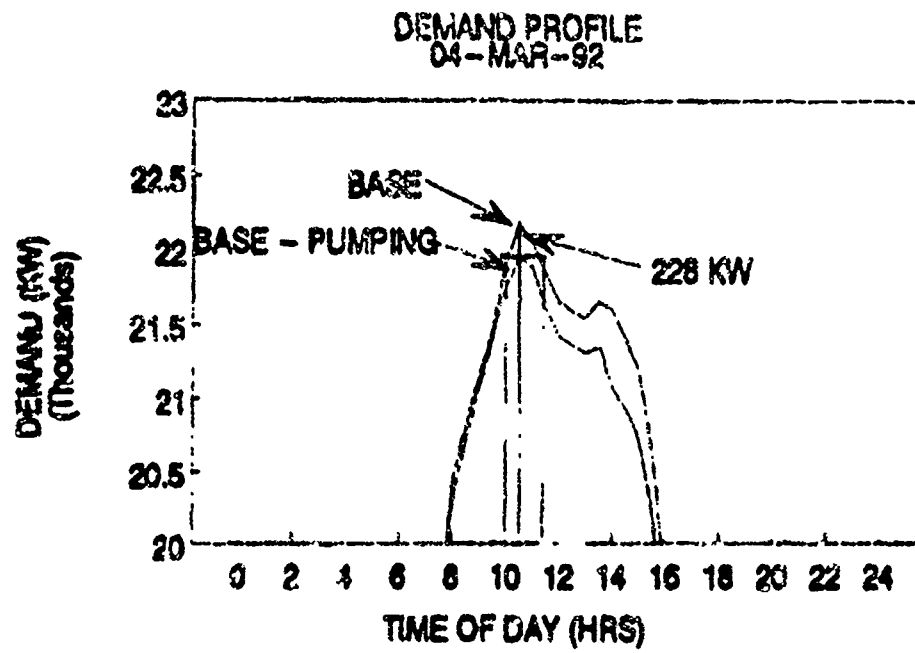
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04-DEC-91

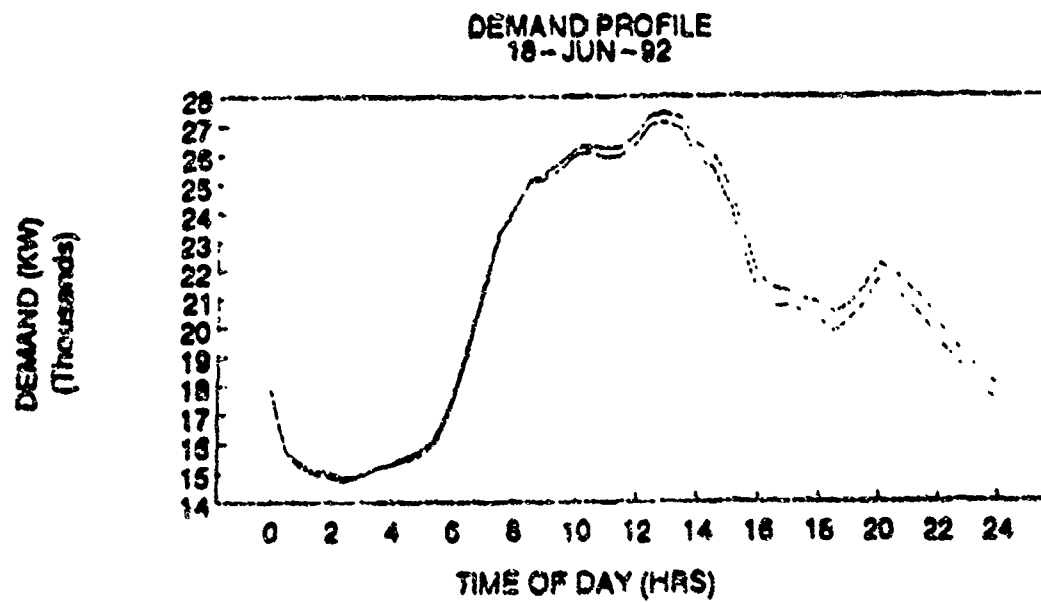
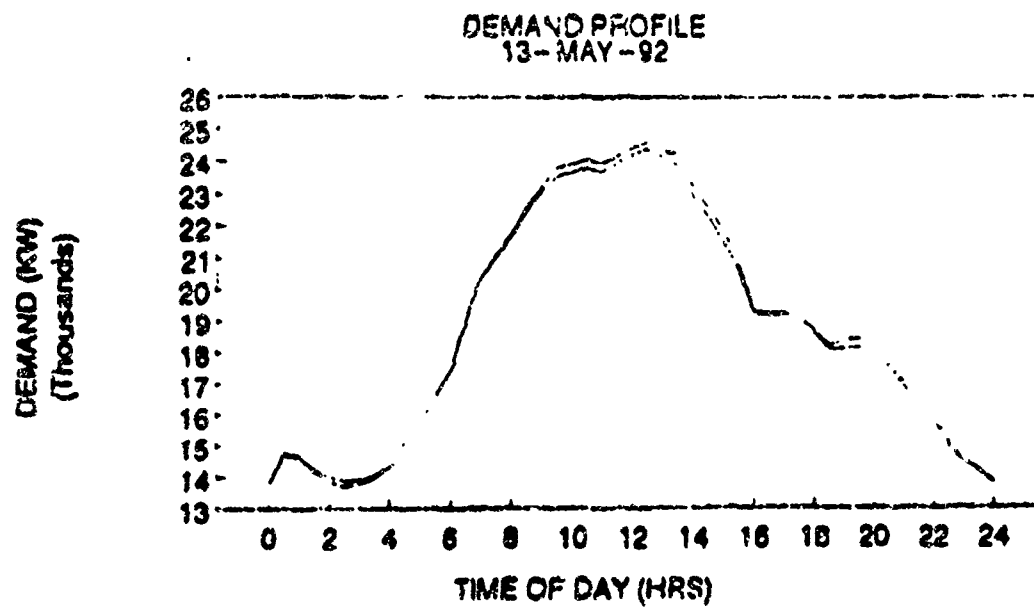


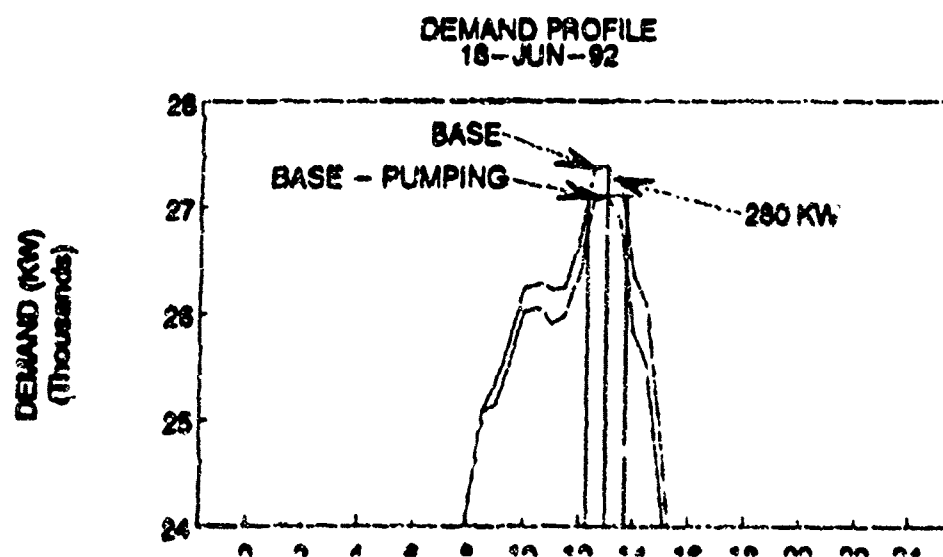
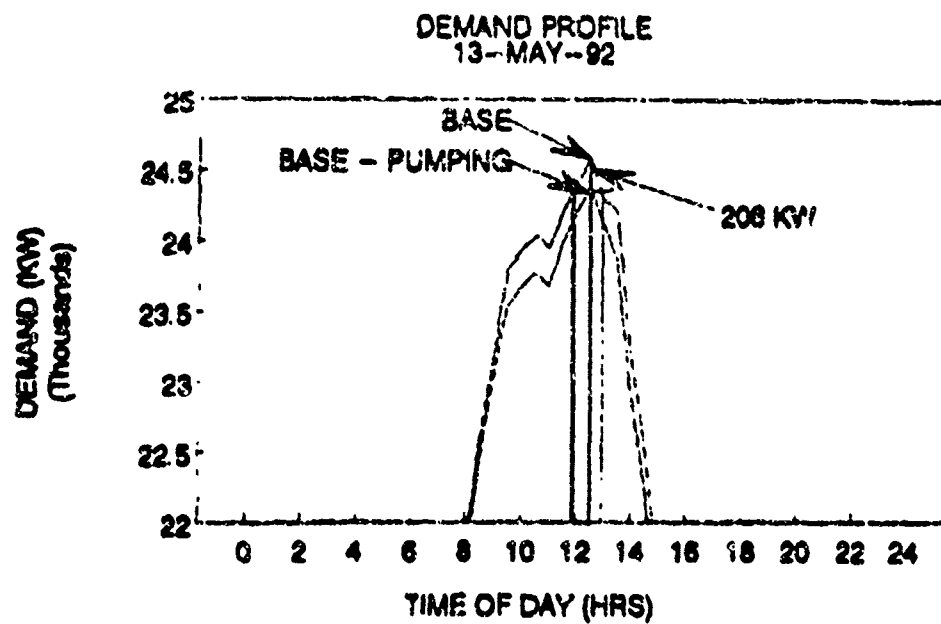


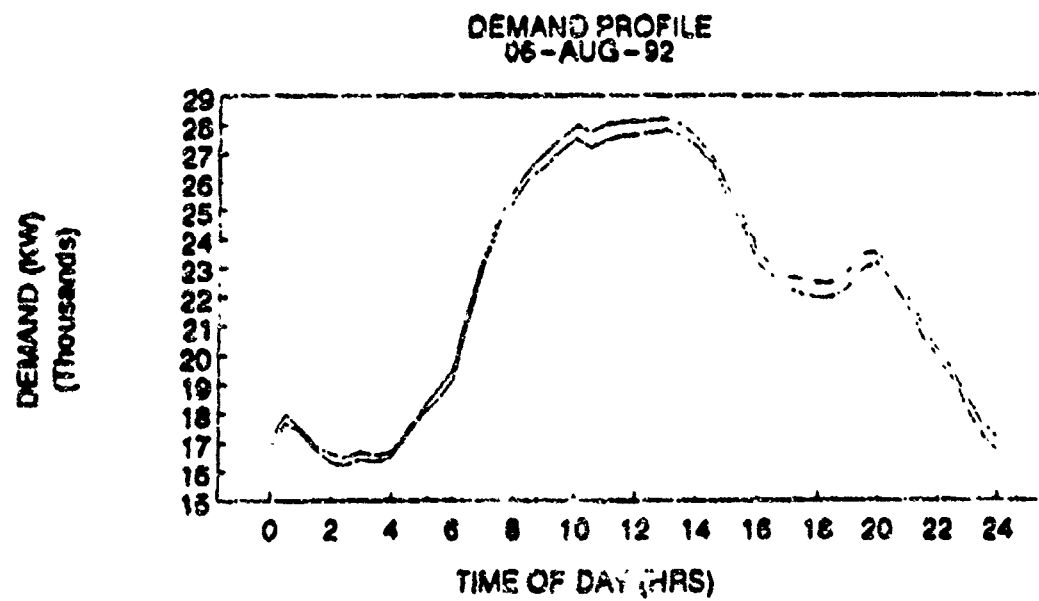
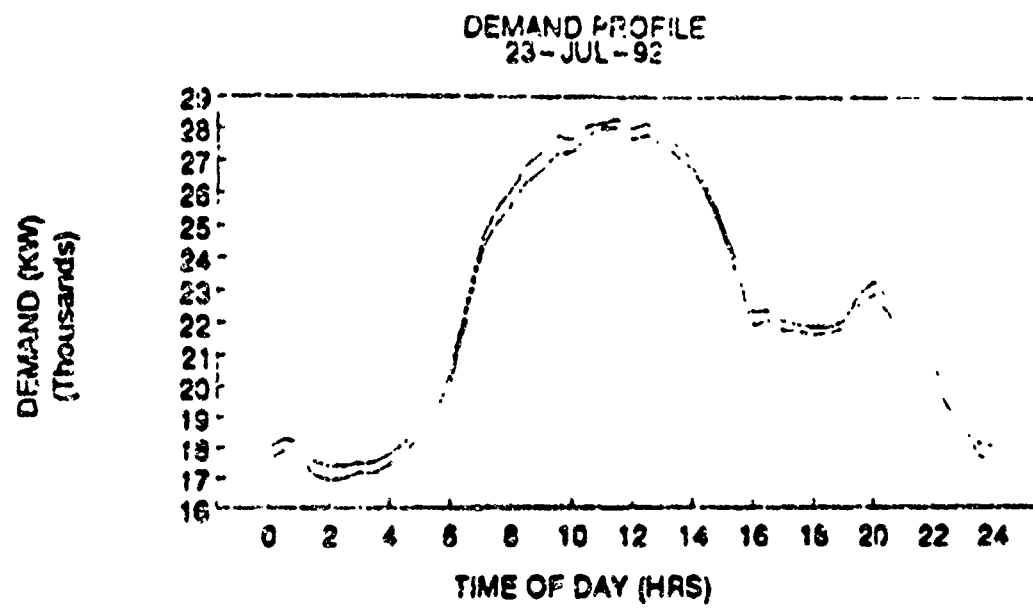




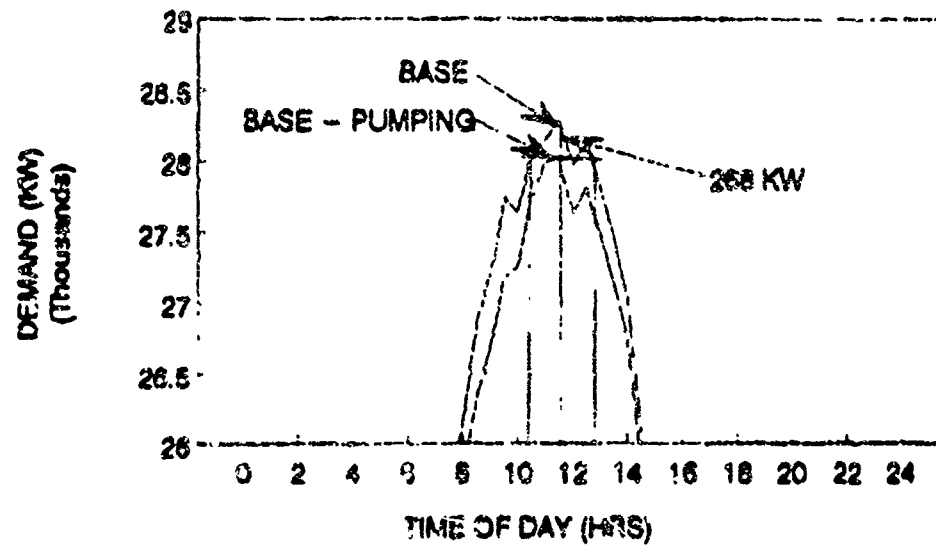




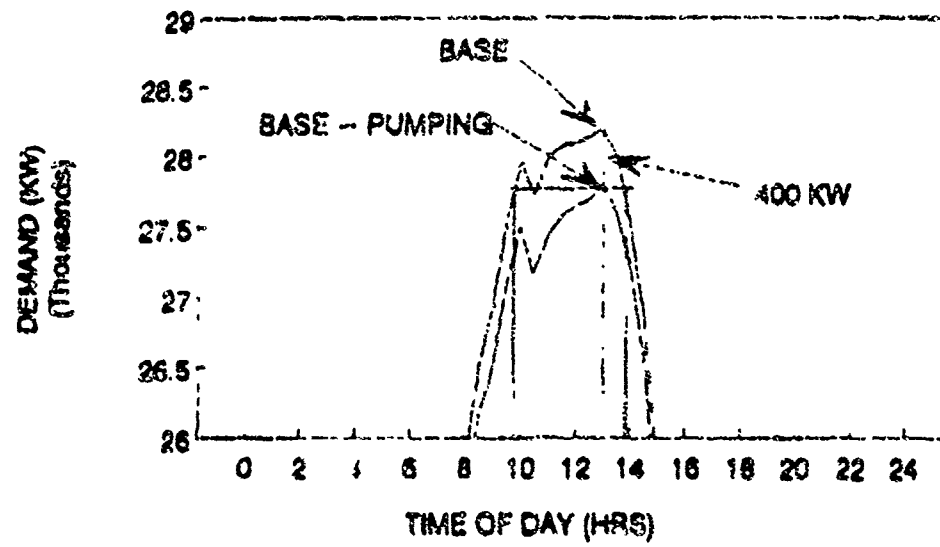




DEMAND PROFILE
23-JUL-92



DEMAND PROFILE
06-AUG-92



APPENDIX D

Example Energy Calculations

EXAMPLE ENERGY CALCULATIONS

Daily Pump Report Summary

1. Using the Williams Electric Control System data, and the peak demand pump KW listed in Row B, the daily pump report summaries were created for each of the peak days during the 12-month period.
2. The summation of the total pumping KW for each peak day at 30-minute intervals was calculated and is listed in Column A.
3. Next, the daily run-times were calculated (Row C) and multiplied by the pump KW (Row B) to determine the daily KWH consumption (Row D).

Alternative Energy Use Summary

1. The peak pumping KW which occurred between 10:00 am and 3:00 pm was determined in Column A from the Daily Pump Report Summary for each of the peak days during the month period. These values are listed in Column G.
2. Next, the approximately monthly KWH usage was determined by multiplying the total daily usage (Row D) by 30 days per month. These values are listed in Columns H and J.
3. The peak demand for Alternative 2 is zero (Column I) due to the pumps being scheduled off between 10:00 am to 3:00 pm.
4. The annual utility requirements for each alternative (Row F) were calculated by summing the 12 monthly values.

REPORT OF THE DIRECTOR

<p>  </p>	<p>  </p>
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EXAMPLE ALTERNATIVE ENERGY USE SUMMARY

MONTH	G		H		I		J	
	ALTERNATIVE # 1	ALTERNATIVE # 2	ALTERNATIVE # 1	ALTERNATIVE # 2	ALTERNATIVE # 1	ALTERNATIVE # 2	ALTERNATIVE # 1	ALTERNATIVE # 2
	PEAK	USAGE	PEAK	USAGE	PEAK	USAGE	PEAK	USAGE
	KW	KWH	KW	KWH	KW	KWH	KW	KWH
SEP 91	328	100,320	0	0	0	100,320	0	100,320
OCT 91	400	189,942	0	0	0	189,942	0	189,942
NOV 91	300	97,600	0	0	0	97,600	0	97,600
DEC 91	280	137,020	0	0	0	137,020	0	137,020
JAN 92	120	164,610	0	0	0	164,610	0	164,610
FEB 92	300	50,460	0	0	0	50,460	0	50,460
MAR 92	228	106,764	0	0	0	106,764	0	106,764
APR 92	48	90,900	0	0	0	90,900	0	90,900
MAY 92	208	100,008	0	0	0	100,008	0	100,008
JUN 92	280	248,700	0	0	0	248,700	0	248,700
JUL 92	256	281,666	0	0	0	281,666	0	281,666
AUG 92	400	268,770	0	0	0	268,770	0	268,770
TOTALS	3,160	1,816,958	0	0	0	1,816,958	0	1,816,958

APPENDIX E - Pump Run Time Data

ALTERNATIVE ENERGY USE SUMMARY

MONTH	ALTERNATIVE # 1		ALTERNATIVE # 2	
	PEAK KW	USAGE KWH	PEAK KW	USAGE KWH
SEP 91	328	100,320	0	100,320
OCT 91	400	169,942	0	169,942
NOV 91	300	97,800	0	97,800
DEC 91	280	137,020	0	137,020
JAN 92	120	164,610	0	164,610
FEB 92	300	50,460	0	50,460
MAR 92	228	106,764	0	106,764
APR 92	48	90,900	0	90,900
MAY 92	208	100,008	0	100,008
JUN 92	280	248,700	0	248,700
JUL 92	268	281,888	0	281,888
AUG 92	400	268,770	0	268,770
TOTALS	3,160	1,816,958	0	1,816,958

NOV 19 1952

349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500
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FEBRUARY 22 1962

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831 5012067

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2012 12 13

2500 2499 2498 2497 2496 2495 2494 2493 2492 2491 2490 2489 2488 2487 2486 2485 2484 2483 2482 2481 2480 2479 2478 2477 2476 2475 2474 2473 2472 2471 2470 2469 2468 2467 2466 2465 2464 2463 2462 2461 2460 2459 2458 2457 2456 2455 2454 2453 2452 2451 2450 2449 2448 2447 2446 2445 2444 2443 2442 2441 2440 2439 2438 2437 2436 2435 2434 2433 2432 2431 2430 2429 2428 2427 2426 2425 2424 2423 2422 2421 2420 2419 2418 2417 2416 2415 2414 2413 2412 2411 2410 2409 2408 2407 2406 2405 2404 2403 2402 2401 2400 2399 2398 2397 2396 2395 2394 2393 2392 2391 2390 2389 2388 2387 2386 2385 2384 2383 2382 2381 2380 2379 2378 2377 2376 2375 2374 2373 2372 2371 2370 2369 2368 2367 2366 2365 2364 2363 2362 2361 2360 2359 2358 2357 2356 2355 2354 2353 2352 2351 2350 2349 2348 2347 2346 2345 2344 2343 2342 2341 2340 2339 2338 2337 2336 2335 2334 2333 2332 2331 2330 2329 2328 2327 2326 2325 2324 2323 2322 2321 2320 2319 2318 2317 2316 2315 2314 2313 2312 2311 2310 2309 2308 2307 2306 2305 2304 2303 2302 2301 2300 2299 2298 2297 2296 2295 2294 2293 2292 2291 2290 2289 2288 2287 2286 2285 2284 2283 2282 2281 2280 2279 2278 2277 2276 2275 2274 2273 2272 2271 2270 2269 2268 2267 2266 2265 2264 2263 2262 2261 2260 2259 2258 2257 2256 2255 2254 2253 2252 2251 2250 2249 2248 2247 2246 2245 2244 2243 2242 2241 2240 2239 2238 2237 2236 2235 2234 2233 2232 2231 2230 2229 2228 2227 2226 2225 2224 2223 2222 2221 2220 2219 2218 2217 2216 2215 2214 2213 2212 2211 2210 2209 2208 2207 2206 2205 2204 2203 2202 2201 2200 2199 2198 2197 2196 2195 2194 2193 2192 2191 2190 2189 2188 2187 2186 2185 2184 2183 2182 2181 2180 2179 2178 2177 2176 2175 2174 2173 2172 2171 2170 2169 2168 2167 2166 2165 2164 2163 2162 2161 2160 2159 2158 2157 2156 2155 2154 2153 2152 2151 2150 2149 2148 2147 2146 2145 2144 2143 2142 2141 2140 2139 2138 2137 2136 2135 2134 2133 2132 2131 2130 2129 2128 2127 2126 2125 2124 2123 2122 2121 2120 2119 2118 2117 2116 2115 2114 2113 2112 2111 2110 2109 2108 2107 2106 2105 2104 2103 2102 2101 2100 2099 2098 2097 2096 2095 2094 2093 2092 2091 2090 2089 2088 2087 2086 2085 2084 2083 2082 2081 2080 2079 2078 2077 2076 2075 2074 2073 2072 2071 2070 2069 2068 2067 2066 2065 2064 2063 2062 2061 2060 2059 2058 2057 2056 2055 2054 2053 2052 2051 2050 2049 2048 2047 2046 2045 2044 2043 2042 2041 2040 2039 2038 2037 2036 2035 2034 2033 2032 2031 2030 2029 2028 2027 2026 2025 2024 2023 2022 2021 2020 2019 2018 2017 2016 2015 2014 2013 2012 2011 2010 2009 2008 2007 2006 2005 2004 2003 2002 2001 2000 1999 1998 1997 1996 1995 1994 1993 1992 1991 1990 1989 1988 1987 1986 1985 1984 1983 1982 1981 1980 1979 1978 1977 1976 1975 1974 1973 1972 1971 1970 1969 1968 1967 1966 1965 1964 1963 1962 1961 1960 1959 1958 1957 1956 1955 1954 1953 1952 1951 1950 1949 1948 1947 1946 1945 1944 1943 1942 1941 1940 1939 1938 1937 1936 1935 1934 1933 1932 1931 1930 1929 1928 1927 1926 1925 1924 1923 1922 1921 1920 1919 1918 1917 1916 1915 1914 1913 1912 1911 1910 1909 1908 1907 1906 1905 1904 1903 1902 1901 1900 1899 1898 1897 1896 1895 1894 1893 1892 1891 1890 1889 1888 1887 1886 1885 1884 1883 1882 1881 1880 1879 1878 1877 1876 1875 1874 1873 1872 1871 1870 1869 1868 1867 1866 1865 1864 1863 1862 1861 1860 1859 1858 1857 1856 1855 1854 1853 1852 1851 1850 1849 1848 1847 1846 1845 1844 1843 1842 1841 1840 1839 1838 1837 1836 1835 1834 1833 1832 1831 1830 1829 1828 1827 1826 1825 1824 1823 1822 1821 1820 1819 1818 1817 1816 1815 1814 1813 1812 1811 1810 1809 1808 1807 1806 1805 1804 1803 1802 1801 1800 1799 1798 1797 1796 1795 1794 1793 1792 1791 1790 1789 1788 1787 1786 1785 1784 1783 1782 1781 1780 1779 1778 1777 1776 1775 1774 1773 1772 1771 1770 1769 1768 1767 1766 1765 1764 1763 1762 1761 1760 1759 1758 1757 1756 1755 1754 1753 1752 1751 1750 1749 1748 1747 1746 1745 1744 1743 1742 1741 1740 1739 1738 1737 1736 1735 1734 1733 1732 1731 1730 1729 1728 1727 1726 1725 1724 1723 1722 1721 1720 1719 1718 1717 1716 1715 1714 1713 1712 1711 1710 1709 1708 1707 1706 1705 1704 1703 1702 1701 1700 1699 1698 1697 1696 1695 1694 1693 1692 1691 1690 1689 1688 1687 1686 1685 1684 1683 1682

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THE UNIVERSITY OF CHICAGO

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ESTABLISHED 1891

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OCT 06 1991

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DECEMBER 24, 1991

1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434
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APPENDIX F

**Water Distribution and
Well Pumping Records**

FCRT BLISS

WELL PUMPING 1993

For Fort Bliss and WBAMC Systems only

MONTH	PIKE	DESERT	TOTAL
MARCH 93	14,274,018	68,418,400	82,692,418
APRIL 93	37,588,248	73,899,048	111,185,296
MAY 93	47,479,192	95,669,128	143,148,320
JUNE 93	45,590,528	107,206,632	152,797,260
JULY 93	59,446,984	112,948,112	152,395,096
AUGUST 93	19,120,382	105,582,576	124,702,958
SEPTEMBER 93	4,957,536	96,970,784	101,928,320
OCTOBER 93	7,691,019	76,832,008	83,483,027
NOVEMBER 93	1,050,848	61,551,886	62,602,804
DECEMBER 93	6,220,852	41,909,896	48,130,748
JANUARY 94	34,183,844	15,508,847	49,693,491
FEBRUARY 94	59,097,344	947,201	60,044,545
TOTAL (MG)	316,646,693	856,145,288	1,172,793,983
AVERAGE (MGD)	0.87	2.35	3.21

FORT BLISS WELL PUMPING

JUNE 1993

For Fort Bliss and WBAMC Systems only

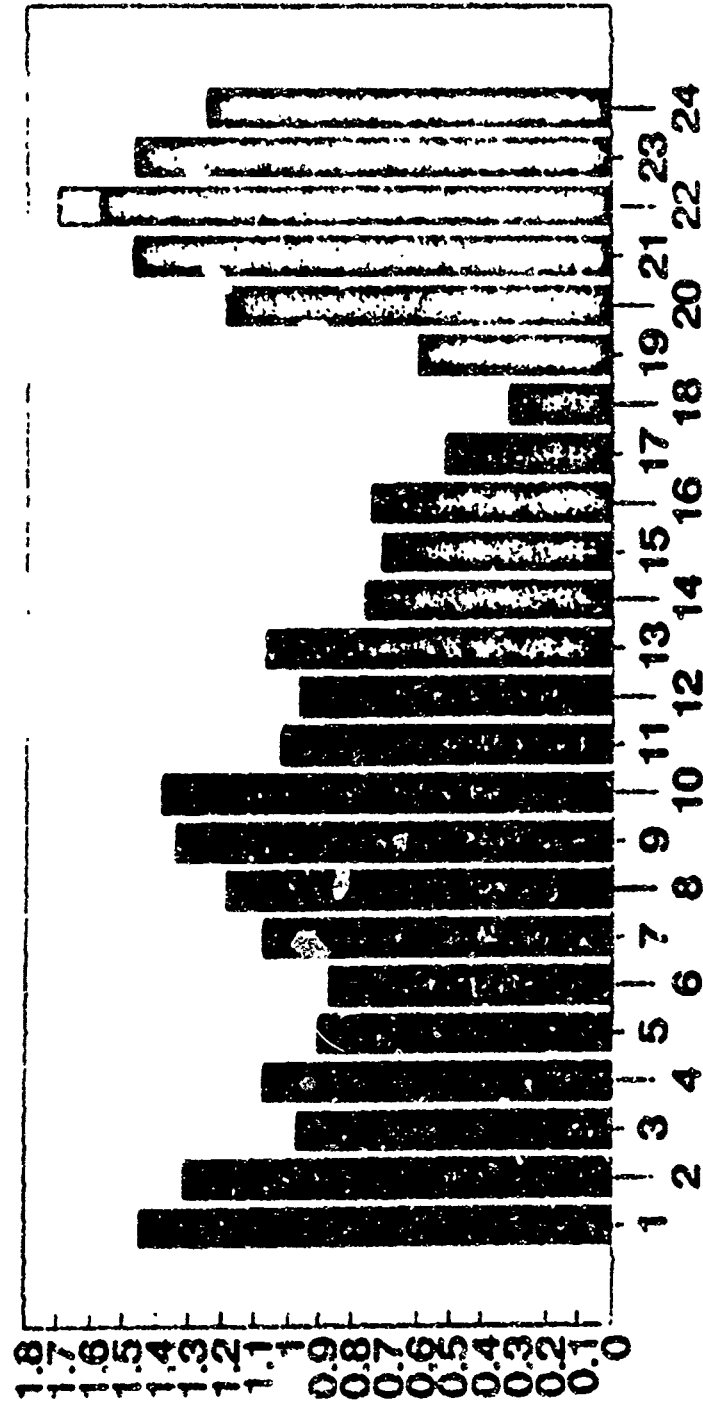
DAY	PIKE	DESERT	TOTAL
1	2,160,616	3,706,302	5,866,918
2	1,819,218	3,702,650	5,521,868
3	1,708,090	3,840,404	5,548,484
4	1,458,360	4,068,582	5,517,942
5	1,248,746	3,103,959	4,352,705
6	677,282	2,031,141	3,608,423
7	1,424,878	4,711,847	6,219,725
8	1,995,373	3,931,272	5,927,145
9	1,874,316	3,441,080	5,315,396
10	1,486,271	3,817,143	5,303,414
11	1,405,768	3,283,215	4,688,983
12	892,598	3,422,702	4,315,300
13	1,189,543	3,028,084	4,197,627
14	1,880,334	4,888,719	6,271,053
15	971,975	3,167,608	4,139,583
16	2,538,471	4,408,534	6,948,005
17	1,712,158	2,247,379	3,959,537
18	2,138,528	2,789,799	4,908,325
19	2,208,702	1,880,886	4,089,401
20	2,880,909	2,011,851	4,892,760
21	1,883,386	3,018,485	4,881,883
22	2,036,504	2,288,213	4,304,717
23	2,187,470	4,008,010	6,196,480
24	2,147,444	2,840,577	4,788,021
25	2,578,128	3,788,391	6,347,517
26	421,428	3,488,350	3,909,778
27	0	4,079,102	4,079,102
28	896,524	4,804,919	5,501,443
29	634,095	5,516,442	6,200,537
30	0	5,377,156	5,377,156
MG	45,863,823	107,206,615	152,797,238
MGD	1.82	3.46	4.93

FORT BLISS PEAK DAY PUMPING RECORDS

for JULY 23, 1992

Hour	PIKE	DESERT	HAWK	LOGAN	WBACM-L	WBACM-U	TOTAL	Hourly to Peak day Ratio
1	112,063	250,915	0	112,666	67,186	0	542,852	1.45
2	111,415	249,540	0	123,958	7,402	0	492,313	1.32
3	111,020	248,590	0	2,817	0	0	362,367	0.97
4	100,772	245,608	0	0	46,084	0	401,484	1.07
5	104,359	229,163	0	0	6,876	0	339,397	0.91
6	55,617	235,373	0	0	19,612	15,904	326,596	0.87
7	0	246,523	0	0	68,783	86,367	401,683	1.07
8	0	232,138	0	0	195,590	86,494	444,212	1.19
9	0	253,743	0	14,086	149,232	86,445	502,555	1.34
10	92,026	241,913	0	0	134,057	49,783	518,384	1.39
11	108,501	239,780	0	0	33,746	0	382,027	1.02
12	105,035	237,205	17,491	0	0	0	359,731	0.96
13	106,546	243,613	23,399	0	25,954	0	399,714	1.07
14	3,529	231,968	22,224	11,269	16,199	0	285,189	0.76
15	0	93,845	14,642	94,186	20,881	41,794	265,346	0.71
16	0	91,063	0	24,419	77,049	85,081	277,612	0.74
17	0	91,723	0	0	83,521	16,891	192,135	0.51
18	0	93,263	0	0	25,928	0	119,111	0.32
19	19,052	155,765	0	0	48,658	0	223,485	0.60
20	114,364	253,020	0	0	60,890	16,234	444,498	1.16
21	114,003	253,270	0	0	96,288	87,163	551,322	1.17
22	114,111	252,260	0	0	135,860	86,135	598,165	1.17
23	111,789	325,335	0	0	96,615	15,726	549,467	1.47
24	110,192	355,673	0	0	0	0	465,865	1.25
MG	304,597	5,370,469	77,756	393,421	1,324,129	674,141	8,968,648	
MGD	1.60	5.37	0.08	0.36	1.32	0.67	8.97	

Diurnal Water Demands July 23, 1992



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APPENDIX G

Storage Tank and Pressure Plane Balance Sheets

FT BLISS WATER DISTRIBUTION SYSTEM STUDY

William Beaumont Army Med Center (WBAMC)

Balance for Tank 7241

HYDRO3TB.WK1

Time	Ratio of Hourly Demand to Peak Day	Hourly Demand (gal)	Hourly Pumping Rate (gph) *1	Hourly Storage Ingoing (gal)	Hourly Storage Outgoing (gal)	Cummulative Storage *2 (gal)
						700,000
1:00	1.45	40,716	24,936	0	24,936	675,064
2:00	1.32	37,066	21,346	0	21,346	653,698
3:00	0.97	27,238	16,658	0	16,658	637,000
4:00	1.07	30,046	18,466	94,080	18,466	712,614
5:00	0.91	25,553	13,973	94,080	13,973	782,721
6:00	0.87	24,430	12,850	94,080	12,850	873,951
7:00	1.07	30,046	18,466	94,080	18,466	949,565
8:00	1.19	33,415	17,695	86,010	17,695	1,017,880
9:00	1.34	37,627	21,907	86,010	21,907	1,081,683
10:00	1.39	39,031	0		87,886	994,097
11:00	1.02	28,642	0		87,886	906,211
12:00	0.96	26,957	0		87,886	818,325
13:00	1.07	30,046	0		87,886	730,439
14:00	0.76	21,341	0		87,886	642,553
15:00	0.71	19,937	0		87,886	554,667
16:00	0.74	20,779	72,779	85,140	72,779	567,026
17:00	0.51	14,321	69,321	85,140	69,321	582,847
18:00	0.32	8,986	63,986	85,140	63,986	604,001
19:00	0.60	16,848	71,848	85,140	71,848	617,293
20:00	1.19	33,415	73,635	94,080	73,635	637,738
21:00	1.48	41,558	25,833	77,940	25,833	689,845
22:00	1.57	44,066	24,286	77,940	24,286	743,499
23:00	1.47	41,278	25,558	1,439	25,558	719,360
24:00	1.25	35,100	19,380	0	19,380	700,000
	Totals	708,458	612,883	1,140,299	1,140,299	

*1 - Out of Tank 7241

*2 - Tank 7241

FT BLISS WATER DISTRIBUTION SYSTEM STUDY

William Beaumont Army Medical Center (WBAMC)

Balance for Tank 7090/7088

HYDROST.WK1

Time	Ratio of Hourly Demand to Peak Day	Hourly Demand (gal)	Demand to Upper PP (gal)	Total Hourly Demand (gal)	Hourly Pumping Rate (gph) *1	Hourly Storage Ingoing (gal)	Hourly Storage outgoing (gal)	Cummulative Storage *2 (gal)
								1,750,000
1:00	1.45	84,042	24988	109,038	134,034	101,183	134,034	1,717,149
2:00	1.32	76,507	21346	97,853	119,199	136,350	119,199	1,734,300
3:00	0.97	56,221	16658	72,879	89,537	232,560	89,537	1,877,323
4:00	1.07	62,017	18488	80,483	98,949	232,560	98,949	2,010,933
5:00	0.91	52,744	13973	66,717	80,690	232,560	80,690	2,162,804
6:00	0.87	50,425	12850	63,275	76,125	232,560	76,125	2,319,239
7:00	1.07	62,017	18488	80,483	98,949	232,560	98,949	2,452,849
8:00	1.19	68,972	17895	86,667	104,362	136,350	104,362	2,484,837
9:00	1.34	77,665	21907	99,573	121,480	136,350	121,480	2,499,707
10:00	1.39	80,564	0	80,564	0		87,900	2,411,807
11:00	1.02	59,119	0	59,119	0		87,900	2,323,907
12:00	0.96	55,642	0	55,642	0		87,900	2,236,007
13:00	1.07	62,017	0	62,017	0		87,900	2,148,107
14:00	0.76	44,050	0	44,050	0		87,900	2,060,207
15:00	0.71	41,152	0	41,152	0		87,900	1,972,307
16:00	0.74	42,890	72779	115,669	168,448	221,820	168,448	2,005,678
17:00	0.51	29,580	69321	98,681	168,202	221,820	168,202	2,059,297
18:00	0.32	18,547	63988	82,533	146,519	221,820	146,519	2,134,697
19:00	0.60	34,776	71948	106,624	178,472	221,820	178,472	2,177,945
20:00	1.19	68,972	73635	142,607	216,242	136,350	216,242	2,098,053
21:00	1.48	85,781	25833	111,614	137,447	136,350	137,447	2,068,958
22:00	1.57	90,967	24288	115,283	139,569	40,140	139,569	1,997,527
23:00	1.47	88,201	25158	110,759	136,317	0	136,317	1,861,210
24:00	1.25	72,450	18380	91,830	111,210	0	111,210	1,750,000
		1,482,931	612,983	2,075,314	2,345,753	2,873,153	2,873,153	

1 - Out of 7088/7090

2 - Tank 7090/7088

FT BLISS WATER DISTRIBUTION SYSTEM STUDY

William Beaumont Army Med Center (WBAMC)

Upper Pressure Plane
HYDRO3T.WK1

Time	Ratio of Hourly Demand to Peak Day	Hourly Demand (gal)	Hourly Pumping Rate (gph) *1	Hourly Storage Ingoing (gal)	Hourly Storage Outgoing (gal)	Cumulative Storage *2 (gal)
						925,000
1:00	1.45	40,716	24,996		(15,720)	909,280
2:00	1.32	37,066	21,346		(15,720)	893,560
3:00	0.97	27,238	15,658		(11,580)	881,980
4:00	1.07	30,046	18,466		(11,580)	870,400
5:00	0.91	25,553	13,973		(11,580)	858,820
6:00	0.87	24,430	12,850		(11,580)	847,240
7:00	1.07	30,046	18,466		(11,580)	835,660
8:00	1.19	33,415	17,695		(15,720)	819,940
9:00	1.34	37,627	21,907		(15,720)	804,220
10:00	1.39	39,031	0		(11,580)	792,640
11:00	1.02	28,642	0		(11,580)	781,060
12:00	0.96	26,957	0		(11,580)	769,480
13:00	1.07	30,046	0		(11,580)	757,900
14:00	0.76	21,341	0		(11,580)	746,320
15:00	0.71	19,937	0		(11,580)	734,740
16:00	0.74	20,779	72,779	62,000		723,160
17:00	0.51	14,321	69,321	55,000		841,140
18:00	0.32	8,986	63,986	55,000		896,740
19:00	0.60	16,846	71,846	55,000		951,740
20:00	1.19	33,415	73,635	40,220		991,960
21:00	1.18	41,558	25,638		(15,720)	976,240
22:00	1.57	44,386	24,286		(19,800)	956,440
23:00	1.47	41,278	25,558		(15,720)	940,720
24:00	1.25	35,100	19,380		(15,720)	925,000
	Totals		611,986	257,220	(257,220)	

1 - Out of Tank 7241

2 - Tank 7775

FT BLISS WATER DISTRIBUTION SYSTEM STUDY

Fort Bliss Pressure Plane -- Lower

HYDRO5B.WK

Time	Ratio of Hourly Demand to Peak Day	Hourly Demand (gal)	Demand to Middle PP (gph)	Total Hourly Demand (gal)	Hourly Pumping Rate (gph) *1	Hourly Storage Ingoing (gal)	Hourly Storage outgoing (gal)	Cummulative Storage *2 (gal)
								3,300,000
1:00	1.45	587,685	123,000	710,685	660,000		(50,685)	3,350,685
2:00	1.32	534,996	123,000	657,996	660,000	2,004		3,352,689
3:00	0.97	393,141	123,000	516,141	660,000	143,859		3,496,548
4:00	1.07	433,671	123,000	556,671	665,508	109,837		3,606,385
5:00	0.91	369,823	123,000	491,823	762,000	270,177		3,876,562
6:00	0.87	352,811	123,000	475,811	762,000	288,389		4,164,951
7:00	1.07	433,671	123,000	556,671	762,000	205,329		4,368,280
8:00	1.19	482,307	123,000	605,307	762,000	156,893		4,524,973
9:00	1.34	543,102	123,000	666,102	762,000	55,898		4,620,871
10:00	1.39	563,367	0	563,367	0		(503,367)	4,037,504
11:00	1.02	413,406	0	413,406	0		(413,406)	3,624,098
12:00	0.96	389,088	0	389,088	0		(389,088)	3,255,010
13:00	1.07	433,671	0	433,671	0		(433,671)	2,821,339
14:00	0.78	308,028	0	308,028	0		(308,028)	2,513,311
15:00	0.71	287,763	0	287,763	0		(287,763)	2,225,548
16:00	0.74	299,922	123,000	422,922	660,000	237,078		2,462,626
17:00	0.51	206,703	123,000	329,703	660,000	330,297		2,792,923
18:00	0.32	129,698	123,000	252,698	660,000	407,304		3,200,227
19:00	0.60	243,180	123,000	366,180	660,000	293,820		3,494,047
20:00	1.19	482,307	123,000	605,307	660,000	54,883		3,548,930
21:00	1.48	559,844	123,000	722,844	660,000		(62,844)	3,486,086
22:00	1.57	635,321	123,000	759,321	640,000		(59,321)	3,386,765
23:00	1.47	585,791	102,000	697,791	660,000		(37,791)	3,348,974
24:00	1.25	506,625	100,769	607,414	670,000	52,586		3,401,570
		10,225,719	2,170,759		12,396,508	(2,645,964)	(2,645,964)	

*1 -- Out of Tanks 131d, 1318, 359C, 3691, 3692

*2 -- Tanks 7088/7090, 5300, 129, 493

FT BLISS WATER DISTRIBUTION SYSTEM STUDY

Balance for Water Well Pumping										HYDROB.WRK	
Time	Ratio of Hourly Demand to Peak Day	Hourly Demand (gal)	Demand to Lower PP (gal)	Total Hourly Demand (gal)	Hourly Pumping Rate (gph) *1	Well Pumping Rate (gph) Desert	Well Pumping Rate (gph) Pike	Total Well Rate (gph)	Hourly Storage ingoin (gal)	Hourly Storage outgoing (gal)	Cumulative Storage *2 (gal)
1:00	1.45	597,065	123,000	710,065	0	440,400	237,000	677,400	677,400		1,595,200
2:00	1.32	534,936	123,000	657,936	0	440,400	237,000	677,400	677,400		2,272,600
3:00	0.97	393,141	123,000	516,141	767,400	440,400	237,000	677,400		(90,000)	2,950,000
4:00	1.07	433,571	123,000	556,571	767,400	440,400	237,000	677,400		(90,000)	2,960,000
5:00	0.51	259,623	123,000	491,623	767,400	440,400	237,000	677,400		(90,000)	2,770,000
6:00	0.87	352,611	123,000	475,611	767,400	440,400	237,000	677,400		(90,000)	2,680,000
7:00	1.07	433,571	123,000	556,571	767,400	440,400	237,000	677,400		(90,000)	2,590,000
8:00	1.19	482,307	123,000	605,307	838,950	440,400	237,000	677,400		(161,550)	2,500,000
9:00	1.34	543,102	123,000	666,102	838,950	440,400	237,000	677,400		(161,550)	2,338,450
10:00	1.39	563,367	0	563,367	0	0	0	0		0	2,176,900
11:00	1.02	413,406	0	413,406	0	0	0	0		0	2,176,900
12:00	0.96	389,068	0	389,068	0	0	0	0		0	2,176,900
13:00	1	433,571	0	433,571	0	0	0	0		0	2,176,900
14:00	0.76	308,028	0	308,028	0	0	0	0		0	2,176,900
15:00	0.71	287,763	0	287,763	0	0	0	0		0	2,176,900
16:00	0.74	299,922	123,000	422,922	845,580	440,400	237,000	677,400		(168,180)	2,008,720
17:00	0.51	206,703	123,000	329,703	845,580	440,400	237,000	677,400		(168,180)	1,840,540
18:00	0.32	129,686	123,000	252,686	845,580	440,400	237,000	677,400		(168,180)	1,672,360
19:00	0.60	243,180	123,000	366,180	845,580	440,400	237,000	677,400		(168,180)	1,504,180
20:00	1.19	482,307	123,000	605,307	838,950	440,400	237,000	677,400		(161,550)	1,342,630
21:00	1.40	569,844	123,000	692,844	838,950	440,400	237,000	677,400		(161,550)	1,181,080
22:00	1.57	636,321	123,000	759,321	910,500	440,400	237,000	677,400		(233,100)	947,980
23:00	1.47	565,731	102,000	667,731	838,950	440,400	237,000	677,400		(161,550)	786,430
24:00	1.25	505,625	100,789	606,414	71,838	440,400	237,000	677,400	905,462		1,391,892
		10,225,719	2,170,789	12,396,508	12,396,508			12,193,200	1,967,308	163,570	

*1 - Out of Tanks 1518, 1319, 3680, 3691, 3692

*2 - Tanks 1316, 1319, 3680, 3691, 3692

Daily Loss of 203,303

APPENDIX H - Computer Model Printout

* * * * * K Y P I P E 2 . * * * * *
 * University of Kentucky Hydraulic Analysis Program *
 * Distribution of Pressure and Flow in Piping Networks *
 * KIPS PIPE VERSION - 1.00 (03/01/90) *
 * * * * *

DATE 07/13/94
 TIME 16 40 10 ED

INPUT DATA FILENAME D:\HY2PLUS\BSPK02.DAT
 TABULATED OUTPUT FILENAME D:\HY2PLUS\BSPK02.OUT
 POSTPROCESSOR RESULTS FILENAME ... D:\HY2PLUS\BSPK02.RES

 SUMMARY OF ORIGINAL DATA

UNITS SPECIFIED

FLOWRATE gal/min
 HEAD (HGL) feet
 PRESSURE psig

REGULATING VALVE DATA

RV LABEL	VALVE TYPE	POSITION JUNCTION	CONTROLLED SIZE	VALVE SETTING (ft or psi)
R. 957-1	364	447	4310 40	

PIPELINE DATA

PIPE NUMBER	PIPE CODE	SIZE	HOLE NO. 01	HOLE NO. 02	LENGTH (ft)	DIAMETER (in)	COEFF	PUMP LABEL	MINOR LOSS COEFF	PSY-HGL (ft)
1		1	1	2	1020.0	6.0	125.00		0.00	
2		2	2	3	1000.0	6.0	125.00		0.00	
3		3	3	4	1000.0	6.0	125.00		0.00	
4		4	4	5	1000.0	6.0	125.00		0.00	
5		5	5	6	1000.0	6.0	125.00		0.00	
6		6	6	7	1000.0	6.0	125.00		0.00	
7		7	7	8	1000.0	6.0	125.00		0.00	
8		8	8	9	1000.0	6.0	125.00		0.00	
9		9	9	10	1000.0	6.0	125.00		0.00	
10		10	10	11	1000.0	6.0	125.00		0.00	
11		11	11	12	1000.0	6.0	125.00		0.00	
12		12	12	13	1000.0	6.0	125.00		0.00	
13		13	13	14	1000.0	6.0	125.00		0.00	
14		14	14	15	1000.0	6.0	125.00		0.00	
15		15	15	16	1000.0	6.0	125.00		0.00	
16		16	16	17	1000.0	6.0	125.00		0.00	
17		17	17	18	1000.0	6.0	125.00		0.00	
18		18	18	19	1000.0	6.0	125.00		0.00	
19		19	19	20	1000.0	6.0	125.00		0.00	
20		20	20	21	1000.0	6.0	125.00		0.00	
21		21	21	22	1000.0	6.0	125.00		0.00	
22		22	22	23	1000.0	6.0	125.00		0.00	
23		23	23	24	1000.0	6.0	125.00		0.00	
24		24	24	25	1000.0	6.0	125.00		0.00	
25		25	25	26	1000.0	6.0	125.00		0.00	
26		26	26	27	1000.0	6.0	125.00		0.00	
27		27	27	28	1000.0	6.0	125.00		0.00	
28		28	28	29	1000.0	6.0	125.00		0.00	
29		29	29	30	1000.0	6.0	125.00		0.00	
30		30	30	31	1000.0	6.0	125.00		0.00	
31		31	31	32	1000.0	6.0	125.00		0.00	
32		32	32	33	1000.0	6.0	125.00		0.00	
33		33	33	34	1000.0	6.0	125.00		0.00	
34		34	34	35	1000.0	6.0	125.00		0.00	
35		35	35	36	1000.0	6.0	125.00		0.00	
36		36	36	37	1000.0	6.0	125.00		0.00	
37		37	37	38	1000.0	6.0	125.00		0.00	
38		38	38	39	1000.0	6.0	125.00		0.00	
39		39	39	40	1000.0	6.0	125.00		0.00	
40		40	40	41	1000.0	6.0	125.00		0.00	
41		41	41	42	1000.0	6.0	125.00		0.00	
42	PC	42	42	43	1000.0	6.0	125.00		0.00	1000.00
43		43	43	44	1000.0	6.0	125.00		0.00	
44		44	44	45	1000.0	6.0	125.00		0.00	
45		45	45	46	1000.0	6.0	125.00		0.00	
46		46	46	47	1000.0	6.0	125.00		0.00	
47		47	47	48	1000.0	6.0	125.00		0.00	
48		48	48	49	1000.0	6.0	125.00		0.00	
49		49	49	50	1000.0	6.0	125.00		0.00	
50		50	50	51	1000.0	6.0	125.00		0.00	
51		51	51	52	1000.0	6.0	125.00		0.00	

52	23	62	350 0	10 0	100 00	6 00
53	23	61	1040 0	6 0	125 00	0 00
54	41	34	340 0	0 0	125 00	0 00
55	31	39	902 0	10 0	130 00	0 00
56	41	41	362 0	0 0	125 00	0 00
57	65	42	392 0	10 0	100 00	0 00
58	42	43	072 0	6 0	125 00	1 00
59	32	43	5 0	6 0	125 00	1 00
60	46	43	42 0	6 0	90 00	0 00
61	44	45	1070 0	0 0	90 00	0 00
62	45	45	900 0	0 0	125 00	0 00
63	40	50	1150 0	0 0	125 00	0 00
64	39	50	100 0	0 0	125 00	0 00
65	38	37	940 0	0 0	125 00	0 00
66	36	37	880 0	0 0	125 00	0 00
67	35	34	1742 0	0 0	125 00	0 00
68	34	35	1900 0	0 0	125 00	0 00
69	32	36	012 0	0 0	125 00	0 00
70	31	39	012 0	10 0	125 00	0 00
71	32	40	412 0	0 0	125 00	0 00
72	31	43	1310 0	0 0	125 00	0 00
73	40	41	070 0	10 0	100 00	0 00
74	46	44	370 0	0 0	90 00	0 00
75	46	47	1170 0	0 0	90 00	0 00
76	44	50	2140 0	0 0	125 00	0 00
77	45	46	1620 0	0 0	90 00	0 00
78	76	76	3970 0	0 0	90 00	0 00
79	76	40	1110 0	0 0	110 00	0 00
80	46	49	200 0	0 0	125 00	0 00
81	42	48	460 0	0 0	90 00	0 00
82	64	62	711 0	0 0	90 00	0 00
83	36	66	1200 0	0 0	90 00	0 00
84	64	67	630 0	10 0	100 00	0 00
85	63	66	340 0	10 0	120 00	0 00
86	66	67	280 0	10 0	100 00	0 00
87	65	73	1100 0	0 0	90 00	0 00
88	73	76	30 0	0 0	90 00	0 00
89	71	124	330 0	0 0	90 00	0 00
90	75	124	330 0	0 0	90 00	0 00
91	127	124	1800 0	0 0	90 00	0 00
92	123	124	860 0	0 0	90 00	0 00
93	125	76	1240 0	0 0	90 00	0 00
94	75	76	130 0	0 0	90 00	0 00
95	76	77	720 0	0 0	120 00	0 00
96	77	47	1000 0	10 0	100 00	0 00
97	77	70	460 0	0 0	90 00	0 00
98	70	60	800 0	10 0	100 00	0 00
99	67	68	460 0	10 0	100 00	0 00
100	67	63	680 0	0 0	90 00	0 00
101	40	63	390 0	10 0	100 00	0 00
102	40	69	980 0	10 0	100 00	0 00
103	68	69	1100 0	0 0	90 00	0 00
104	43	61	392 0	10 0	100 00	0 00
105	41	42	430 0	0 0	90 00	0 00
106	61	60	790 0	10 0	100 00	0 00
107	60	40	400 0	10 0	100 00	0 00
108	39	60	630 0	0 0	90 00	0 00
109	60	37	200 0	10 0	120 00	0 00
110	67	49	460 0	0 0	90 00	0 00
111	37	49	460 0	0 0	90 00	0 00
112	90	50	290 0	0 0	90 00	0 00
113	90	51	1250 0	0 0	120 00	0 00
114	55	55	700 0	0 0	120 00	0 00
115	54	50	7 0	0 0	120 00	0 00
116	51	64	3000 0	10 0	110 00	0 00
117	63	64	700 0	0 0	120 00	0 00
118	53	72	1000 0	0 0	120 00	0 00
119	64	71	700 0	10 0	110 00	0 00
120	71	72	420 0	0 0	120 00	0 00
121	72	93	420 0	0 0	120 00	0 00
122	71	67	370 0	10 0	110 00	0 00
123	58	85	1320 0	0 0	120 00	0 00
124	42	94	1100 0	10 0	100 00	0 00
125	59	99	1020 0	0 0	90 00	0 00
126	70	69	460 0	0 0	90 00	0 00
127	49	80	720 0	0 0	90 00	0 00
128	70	79	300 0	0 0	90 00	0 00
129	70	131	030 0	10 0	100 00	0 00
130	77	122	900 0	10 0	100 00	0 00
131	133	123	400 0	0 0	110 00	0 00
132	133	124	1000 0	0 0	90 00	0 00
133	138	142	1050 0	0 0	90 00	0 00
134	138	124	340 0	0 0	90 00	0 00
135	126	143	1020 0	10 0	100 00	0 00
136	124	126	880 0	10 0	100 00	0 00
137	129	121	1120 0	10 0	100 00	0 00
138	125	125	360 0	10 0	110 00	0 00
139	124	79	320 0	0 0	90 00	0 00
140	70	90	700 0	0 0	120 00	0 00
141	126	119	900 0	0 0	90 00	0 00
142	120	80	010 0	0 0	90 00	0 00
143	117	80	050 0	0 0	120 00	0 00
144	117	81	040 0	0 0	90 00	0 00
145	80	01	030 0	0 0	90 00	0 00
146	81	70	020 0	0 0	120 00	0 00
147	01	02	010 0	0 0	90 00	0 00
148	119	82	030 0	10 0	100 00	0 00
149	03	03	000 0	0 0	120 00	0 00
150	170	03	010 0	0 0	75 00	0 00

1484 22

252	161	162	670.0	0.0	90.00	0.00
253	163	164	670.0	0.0	125.00	0.00
254	165	166	670.0	0.0	125.00	0.00
255	167	168	670.0	0.0	125.00	0.00
256	169	170	670.0	0.0	125.00	0.00
257	171	172	670.0	0.0	125.00	0.00
258	173	174	670.0	0.0	125.00	0.00
259	175	176	670.0	0.0	125.00	0.00
260	177	178	670.0	0.0	125.00	0.00
261	179	180	670.0	0.0	125.00	0.00
262	181	182	670.0	0.0	125.00	0.00
263	183	184	670.0	0.0	125.00	0.00
264	185	186	670.0	0.0	125.00	0.00
265	187	188	670.0	0.0	125.00	0.00
266	189	190	670.0	0.0	125.00	0.00
267	191	192	670.0	0.0	125.00	0.00
268	193	194	670.0	0.0	125.00	0.00
269	195	196	670.0	0.0	125.00	0.00
270	197	198	670.0	0.0	125.00	0.00
271	199	200	670.0	0.0	125.00	0.00
272	201	202	670.0	0.0	125.00	0.00
273	203	204	670.0	0.0	125.00	0.00
274	205	206	670.0	0.0	125.00	0.00
275	207	208	670.0	0.0	125.00	0.00
276	209	210	670.0	0.0	125.00	0.00
277	211	212	670.0	0.0	125.00	0.00
278	213	214	670.0	0.0	125.00	0.00
279	215	216	670.0	0.0	125.00	0.00
280	217	218	670.0	0.0	125.00	0.00
281	219	220	670.0	0.0	125.00	0.00
282	221	222	670.0	0.0	125.00	0.00
283	223	224	670.0	0.0	125.00	0.00
284	225	226	670.0	0.0	125.00	0.00
285	227	228	670.0	0.0	125.00	0.00
286	229	230	670.0	0.0	125.00	0.00
287	231	232	670.0	0.0	125.00	0.00
288	233	234	670.0	0.0	125.00	0.00
289	235	236	670.0	0.0	125.00	0.00
290	237	238	670.0	0.0	125.00	0.00
291	239	240	670.0	0.0	125.00	0.00
292	241	242	670.0	0.0	125.00	0.00
293	243	244	670.0	0.0	125.00	0.00
294	245	246	670.0	0.0	125.00	0.00
295	247	248	670.0	0.0	125.00	0.00
296	249	250	670.0	0.0	125.00	0.00
297	251	252	670.0	0.0	125.00	0.00
298	253	254	670.0	0.0	125.00	0.00
299	255	256	670.0	0.0	125.00	0.00
300	257	258	670.0	0.0	125.00	0.00
301	259	260	670.0	0.0	125.00	0.00
302	261	262	670.0	0.0	125.00	0.00
303	263	264	670.0	0.0	125.00	0.00
304	265	266	670.0	0.0	125.00	0.00
305	267	268	670.0	0.0	125.00	0.00
306	269	270	670.0	0.0	125.00	0.00
307	271	272	670.0	0.0	125.00	0.00
308	273	274	670.0	0.0	125.00	0.00
309	275	276	670.0	0.0	125.00	0.00
310	277	278	670.0	0.0	125.00	0.00
311	279	280	670.0	0.0	125.00	0.00
312	281	282	670.0	0.0	125.00	0.00
313	283	284	670.0	0.0	125.00	0.00
314	285	286	670.0	0.0	125.00	0.00
315	287	288	670.0	0.0	125.00	0.00
316	289	290	670.0	0.0	125.00	0.00
317	291	292	670.0	0.0	125.00	0.00
318	293	294	670.0	0.0	125.00	0.00
319	295	296	670.0	0.0	125.00	0.00
320	297	298	670.0	0.0	125.00	0.00
321	299	300	670.0	0.0	125.00	0.00
322	301	302	670.0	0.0	125.00	0.00
323	303	304	670.0	0.0	125.00	0.00
324	305	306	670.0	0.0	125.00	0.00
325	307	308	670.0	0.0	125.00	0.00
326	309	310	670.0	0.0	125.00	0.00
327	311	312	670.0	0.0	125.00	0.00
328	313	314	670.0	0.0	125.00	0.00
329	315	316	670.0	0.0	125.00	0.00
330	317	318	670.0	0.0	125.00	0.00
331	319	320	670.0	0.0	125.00	0.00
332	321	322	670.0	0.0	125.00	0.00
333	323	324	670.0	0.0	125.00	0.00
334	325	326	670.0	0.0	125.00	0.00
335	327	328	670.0	0.0	125.00	0.00
336	329	330	670.0	0.0	125.00	0.00
337	331	332	670.0	0.0	125.00	0.00
338	333	334	670.0	0.0	125.00	0.00
339	335	336	670.0	0.0	125.00	0.00
340	337	338	670.0	0.0	125.00	0.00
341	339	340	670.0	0.0	125.00	0.00
342	341	342	670.0	0.0	125.00	0.00
343	343	344	670.0	0.0	125.00	0.00
344	345	346	670.0	0.0	125.00	0.00
345	347	348	670.0	0.0	125.00	0.00
346	349	350	670.0	0.0	125.00	0.00
347	351	352	670.0	0.0	125.00	0.00
348	353	354	670.0	0.0	125.00	0.00

349	395	344	400	3	0	0	121	20	0	00
350	397	345	770	3	0	0	123	00	0	00
351	399	346	770	3	0	0	123	00	0	00
352	397	347	162	3	14	0	123	00	0	00
353	399	348	402	0	0	0	123	00	0	00
354	399	349	742	3	0	0	123	00	0	00
355	399	350	432	3	0	0	90	00	0	00
356	399	351	112	0	0	0	90	00	0	00
357	399	352	412	3	0	0	121	00	0	00
358	399	353	112	0	0	0	121	00	0	00
359	399	354	202	3	0	0	121	00	0	00
360	399	355	62	0	0	0	90	00	0	00
361	399	356	74	0	0	0	90	00	0	00
362	399	357	74	0	0	0	90	00	0	00
363	399	358	32	0	0	0	121	00	0	00
364	399	359	74	0	14	0	121	00	0	00
365	399	360	42	0	0	0	121	00	0	00
366	399	361	74	0	14	0	121	00	0	00
367	399	362	122	0	14	0	121	00	0	00
368	399	363	122	0	14	0	121	00	0	00
369	399	364	122	0	14	0	121	00	0	00
370	399	365	32	0	0	0	121	00	0	00
371	399	366	32	0	14	0	121	00	0	00
372	399	367	32	0	14	0	121	00	0	00
373	399	368	32	0	14	0	121	00	0	00
374	399	369	32	0	14	0	121	00	0	00
375	399	370	32	0	14	0	121	00	0	00
376	399	371	32	0	14	0	121	00	0	00
377	399	372	32	0	14	0	121	00	0	00
378	399	373	32	0	14	0	121	00	0	00
379	399	374	32	0	14	0	121	00	0	00
380	399	375	32	0	14	0	121	00	0	00
381	399	376	32	0	14	0	121	00	0	00
382	399	377	32	0	14	0	121	00	0	00
383	399	378	32	0	14	0	121	00	0	00
384	399	379	32	0	14	0	121	00	0	00
385	399	380	32	0	14	0	121	00	0	00
386	399	381	32	0	14	0	121	00	0	00
387	399	382	32	0	14	0	121	00	0	00
388	399	383	32	0	14	0	121	00	0	00
389	399	384	32	0	14	0	121	00	0	00
390	399	385	32	0	14	0	121	00	0	00
391	399	386	32	0	14	0	121	00	0	00
392	399	387	32	0	14	0	121	00	0	00
393	399	388	32	0	14	0	121	00	0	00
394	399	389	32	0	14	0	121	00	0	00
395	399	390	32	0	14	0	121	00	0	00
396	399	391	32	0	14	0	121	00	0	00
397	399	392	32	0	14	0	121	00	0	00
398	399	393	32	0	14	0	121	00	0	00
399	399	394	32	0	14	0	121	00	0	00
400	399	395	32	0	14	0	121	00	0	00
401	399	396	32	0	14	0	121	00	0	00
402	399	397	32	0	14	0	121	00	0	00
403	399	398	32	0	14	0	121	00	0	00
404	399	399	32	0	14	0	121	00	0	00
405	399	400	32	0	14	0	121	00	0	00
406	399	401	32	0	14	0	121	00	0	00
407	399	402	32	0	14	0	121	00	0	00
408	399	403	32	0	14	0	121	00	0	00
409	399	404	32	0	14	0	121	00	0	00
410	399	405	32	0	14	0	121	00	0	00
411	399	406	32	0	14	0	121	00	0	00
412	399	407	32	0	14	0	121	00	0	00
413	399	408	32	0	14	0	121	00	0	00
414	399	409	32	0	14	0	121	00	0	00
415	399	410	32	0	14	0	121	00	0	00
416	399	411	32	0	14	0	121	00	0	00
417	399	412	32	0	14	0	121	00	0	00
418	399	413	32	0	14	0	121	00	0	00
419	399	414	32	0	14	0	121	00	0	00
420	399	415	32	0	14	0	121	00	0	00
421	399	416	32	0	14	0	121	00	0	00
422	399	417	32	0	14	0	121	00	0	00
423	399	418	32	0	14	0	121	00	0	00
424	399	419	32	0	14	0	121	00	0	00
425	399	420	32	0	14	0	121	00	0	00
426	399	421	32	0	14	0	121	00	0	00
427	399	422	32	0	14	0	121	00	0	00
428	399	423	32	0	14	0	121	00	0	00
429	399	424	32	0	14	0	121	00	0	00
430	399	425	32	0	14	0	121	00	0	00
431	399	426	32	0	14	0	121	00	0	00
432	399	427	32	0	14	0	121	00	0	00
433	399	428	32	0	14	0	121	00	0	00
434	399	429	32	0	14	0	121	00	0	00
435	399	430	32	0	14	0	121	00	0	00
436	399	431	32	0	14	0	121	00	0	00
437	399	432	32	0	14	0	121	00	0	00
438	399	433	32	0	14	0	121	00	0	00
439	399	434	32	0	14	0	121	00	0	00
440	399	435	32	0	14	0	121	00	0	00
441	399	436	32	0	14	0	121	00	0	00
442	399	437	32	0	14	0	121	00	0	00
443	399	438	32	0	14	0	121	00	0	00
444	399	439	32	0	14	0	121	00	0	00
445	399	440	32	0	14	0	121	00	0	00
446	399	441	32	0	14	0	121	00	0	00
447	399	442	32	0	14	0	121	00	0	00
448	399	443	32	0	14	0	121	00	0	00
449	399	444	32	0	14	0	121	00	0	00

491	101	235	600	0	14	0	120.00	0.00
491	104	205	110	0	14	0	120.00	0.00
492	101	206	120	0	6	0	90.00	0.00
493	101	206	130	0	6	0	90.00	0.00
494	101	206	140	0	6	0	90.00	0.00
495	101	201	60	0	6	0	90.00	0.00
496	103	201	61	0	6	0	90.00	0.00
497	102	205	120	0	6	0	90.00	0.00
497	110	216	90	0	6	0	90.00	0.00
498	110	216	110	0	6	0	90.00	0.00
499	110	216	130	0	6	0	90.00	0.00
499	112	217	110	0	6	0	90.00	0.00
499	110	217	220	0	6	0	90.00	0.00
499	112	217	90	0	6	0	90.00	0.00
499	110	217	91	0	6	0	90.00	0.00
499	110	217	110	0	6	0	90.00	0.00
499	110	217	130	0	6	0	90.00	0.00
499	110	217	140	0	6	0	90.00	0.00
499	110	217	150	0	6	0	90.00	0.00
499	110	217	160	0	6	0	90.00	0.00
499	110	217	170	0	6	0	90.00	0.00
499	110	217	180	0	6	0	90.00	0.00
499	110	217	190	0	6	0	90.00	0.00
499	110	217	200	0	6	0	90.00	0.00
499	110	217	210	0	6	0	90.00	0.00
499	110	217	220	0	6	0	90.00	0.00
499	110	217	230	0	6	0	90.00	0.00
499	110	217	240	0	6	0	90.00	0.00
499	110	217	250	0	6	0	90.00	0.00
499	110	217	260	0	6	0	90.00	0.00
499	110	217	270	0	6	0	90.00	0.00
499	110	217	280	0	6	0	90.00	0.00
499	110	217	290	0	6	0	90.00	0.00
499	110	217	300	0	6	0	90.00	0.00
499	110	217	310	0	6	0	90.00	0.00
499	110	217	320	0	6	0	90.00	0.00
499	110	217	330	0	6	0	90.00	0.00
499	110	217	340	0	6	0	90.00	0.00
499	110	217	350	0	6	0	90.00	0.00
499	110	217	360	0	6	0	90.00	0.00
499	110	217	370	0	6	0	90.00	0.00
499	110	217	380	0	6	0	90.00	0.00
499	110	217	390	0	6	0	90.00	0.00
499	110	217	400	0	6	0	90.00	0.00
499	110	217	410	0	6	0	90.00	0.00
499	110	217	420	0	6	0	90.00	0.00
499	110	217	430	0	6	0	90.00	0.00
499	110	217	440	0	6	0	90.00	0.00
499	110	217	450	0	6	0	90.00	0.00
499	110	217	460	0	6	0	90.00	0.00
499	110	217	470	0	6	0	90.00	0.00
499	110	217	480	0	6	0	90.00	0.00
499	110	217	490	0	6	0	90.00	0.00
499	110	217	500	0	6	0	90.00	0.00
499	110	217	510	0	6	0	90.00	0.00
499	110	217	520	0	6	0	90.00	0.00
499	110	217	530	0	6	0	90.00	0.00
499	110	217	540	0	6	0	90.00	0.00
499	110	217	550	0	6	0	90.00	0.00
499	110	217	560	0	6	0	90.00	0.00
499	110	217	570	0	6	0	90.00	0.00
499	110	217	580	0	6	0	90.00	0.00
499	110	217	590	0	6	0	90.00	0.00
499	110	217	600	0	6	0	90.00	0.00
499	110	217	610	0	6	0	90.00	0.00
499	110	217	620	0	6	0	90.00	0.00
499	110	217	630	0	6	0	90.00	0.00
499	110	217	640	0	6	0	90.00	0.00
499	110	217	650	0	6	0	90.00	0.00
499	110	217	660	0	6	0	90.00	0.00
499	110	217	670	0	6	0	90.00	0.00
499	110	217	680	0	6	0	90.00	0.00
499	110	217	690	0	6	0	90.00	0.00
499	110	217	700	0	6	0	90.00	0.00
499	110	217	710	0	6	0	90.00	0.00
499	110	217	720	0	6	0	90.00	0.00
499	110	217	730	0	6	0	90.00	0.00
499	110	217	740	0	6	0	90.00	0.00
499	110	217	750	0	6	0	90.00	0.00
499	110	217	760	0	6	0	90.00	0.00
499	110	217	770	0	6	0	90.00	0.00
499	110	217	780	0	6	0	90.00	0.00
499	110	217	790	0	6	0	90.00	0.00
499	110	217	800	0	6	0	90.00	0.00
499	110	217	810	0	6	0	90.00	0.00
499	110	217	820	0	6	0	90.00	0.00
499	110	217	830	0	6	0	90.00	0.00
499	110	217	840	0	6	0	90.00	0.00
499	110	217	850	0	6	0	90.00	0.00
499	110	217	860	0	6	0	90.00	0.00
499	110	217	870	0	6	0	90.00	0.00
499	110	217	880	0	6	0	90.00	0.00
499	110	217	890	0	6	0	90.00	0.00
499	110	217	900	0	6	0	90.00	0.00
499	110	217	910	0	6	0	90.00	0.00
499	110	217	920	0	6	0	90.00	0.00
499	110	217	930	0	6	0	90.00	0.00
499	110	217	940	0	6	0	90.00	0.00
499	110	217	950	0	6	0	90.00	0.00
499	110	217	960	0	6	0	90.00	0.00
499	110	217	970	0	6	0	90.00	0.00
499	110	217	980	0	6	0	90.00	0.00
499	110	217	990	0	6	0	90.00	0.00
499	110	217	1000	0	6	0	90.00	0.00

LINE	ITEM	QTY	UNIT	PRICE	AMOUNT	TAX	TOTAL
001	001	1	EA	1.00	1.00	.00	1.00
002	002	1	EA	1.00	1.00	.00	1.00
003	003	1	EA	1.00	1.00	.00	1.00
004	004	1	EA	1.00	1.00	.00	1.00
005	005	1	EA	1.00	1.00	.00	1.00
006	006	1	EA	1.00	1.00	.00	1.00
007	007	1	EA	1.00	1.00	.00	1.00
008	008	1	EA	1.00	1.00	.00	1.00
009	009	1	EA	1.00	1.00	.00	1.00
010	010	1	EA	1.00	1.00	.00	1.00
011	011	1	EA	1.00	1.00	.00	1.00
012	012	1	EA	1.00	1.00	.00	1.00
013	013	1	EA	1.00	1.00	.00	1.00
014	014	1	EA	1.00	1.00	.00	1.00
015	015	1	EA	1.00	1.00	.00	1.00
016	016	1	EA	1.00	1.00	.00	1.00
017	017	1	EA	1.00	1.00	.00	1.00
018	018	1	EA	1.00	1.00	.00	1.00
019	019	1	EA	1.00	1.00	.00	1.00
020	020	1	EA	1.00	1.00	.00	1.00
021	021	1	EA	1.00	1.00	.00	1.00
022	022	1	EA	1.00	1.00	.00	1.00
023	023	1	EA	1.00	1.00	.00	1.00
024	024	1	EA	1.00	1.00	.00	1.00
025	025	1	EA	1.00	1.00	.00	1.00
026	026	1	EA	1.00	1.00	.00	1.00
027	027	1	EA	1.00	1.00	.00	1.00
028	028	1	EA	1.00	1.00	.00	1.00
029	029	1	EA	1.00	1.00	.00	1.00
030	030	1	EA	1.00	1.00	.00	1.00
031	031	1	EA	1.00	1.00	.00	1.00
032	032	1	EA	1.00	1.00	.00	1.00
033	033	1	EA	1.00	1.00	.00	1.00
034	034	1	EA	1.00	1.00	.00	1.00
035	035	1	EA	1.00	1.00	.00	1.00
036	036	1	EA	1.00	1.00	.00	1.00
037	037	1	EA	1.00	1.00	.00	1.00
038	038	1	EA	1.00	1.00	.00	1.00
039	039	1	EA	1.00	1.00	.00	1.00
040	040	1	EA	1.00	1.00	.00	1.00
041	041	1	EA	1.00	1.00	.00	1.00
042	042	1	EA	1.00	1.00	.00	1.00
043	043	1	EA	1.00	1.00	.00	1.00
044	044	1	EA	1.00	1.00	.00	1.00
045	045	1	EA	1.00	1.00	.00	1.00
046	046	1	EA	1.00	1.00	.00	1.00
047	047	1	EA	1.00	1.00	.00	1.00
048	048	1	EA	1.00	1.00	.00	1.00
049	049	1	EA	1.00	1.00	.00	1.00
050	050	1	EA	1.00	1.00	.00	1.00
051	051	1	EA	1.00	1.00	.00	1.00
052	052	1	EA	1.00	1.00	.00	1.00
053	053	1	EA	1.00	1.00	.00	1.00
054	054	1	EA	1.00	1.00	.00	1.00
055	055	1	EA	1.00	1.00	.00	1.00
056	056	1	EA	1.00	1.00	.00	1.00
057	057	1	EA	1.00	1.00	.00	1.00
058	058	1	EA	1.00	1.00	.00	1.00
059	059	1	EA	1.00	1.00	.00	1.00
060	060	1	EA	1.00	1.00	.00	1.00</

822-XPVU	823	124	70 0	14.0	125.00	P1	0.00
823-XPVU	823	124	70 0	14.0	125.00	P1	0.00
824-XPVU	824	164	70 0	12.0	130.00	P1	0.00
825-XPVU	825	164	70 0	12.0	130.00	P1	0.00
826-XPVU	826	124	180 0	22.0	135.00	P1	0.00
827-XPVU	827	124	180 0	22.0	135.00	P1	0.00
828-XPVU	828	124	180 0	22.0	135.00	P1	0.00
829-XPVU	829	124	180 0	22.0	135.00	P1	0.00
830-XPVU	830	124	180 0	22.0	135.00	P1	0.00
831	427	428	140 0	25.0	128.00	P1	0.00
832	427	428	140 0	25.0	128.00	P1	0.00
833	427	428	140 0	25.0	128.00	P1	0.00
834	427	428	140 0	25.0	128.00	P1	0.00
835	427	428	140 0	25.0	128.00	P1	0.00
836	427	428	140 0	25.0	128.00	P1	0.00
837	427	428	140 0	25.0	128.00	P1	0.00
838	427	428	140 0	25.0	128.00	P1	0.00
839	427	428	140 0	25.0	128.00	P1	0.00
840	427	428	140 0	25.0	128.00	P1	0.00
841	427	428	140 0	25.0	128.00	P1	0.00
842	427	428	140 0	25.0	128.00	P1	0.00
843	427	428	140 0	25.0	128.00	P1	0.00
844	427	428	140 0	25.0	128.00	P1	0.00
845	427	428	140 0	25.0	128.00	P1	0.00
846	427	428	140 0	25.0	128.00	P1	0.00
847	427	428	140 0	25.0	128.00	P1	0.00
848	427	428	140 0	25.0	128.00	P1	0.00
849	427	428	140 0	25.0	128.00	P1	0.00
850	427	428	140 0	25.0	128.00	P1	0.00
851	427	428	140 0	25.0	128.00	P1	0.00
852	427	428	140 0	25.0	128.00	P1	0.00
853	427	428	140 0	25.0	128.00	P1	0.00
854	427	428	140 0	25.0	128.00	P1	0.00
855	427	428	140 0	25.0	128.00	P1	0.00
856	427	428	140 0	25.0	128.00	P1	0.00
857	427	428	140 0	25.0	128.00	P1	0.00
858	427	428	140 0	25.0	128.00	P1	0.00
859	427	428	140 0	25.0	128.00	P1	0.00
860	427	428	140 0	25.0	128.00	P1	0.00
861	427	428	140 0	25.0	128.00	P1	0.00
862	427	428	140 0	25.0	128.00	P1	0.00
863	427	428	140 0	25.0	128.00	P1	0.00
864	427	428	140 0	25.0	128.00	P1	0.00
865	427	428	140 0	25.0	128.00	P1	0.00
866	427	428	140 0	25.0	128.00	P1	0.00
867	427	428	140 0	25.0	128.00	P1	0.00
868	427	428	140 0	25.0	128.00	P1	0.00
869	427	428	140 0	25.0	128.00	P1	0.00
870	427	428	140 0	25.0	128.00	P1	0.00
871	427	428	140 0	25.0	128.00	P1	0.00
872	427	428	140 0	25.0	128.00	P1	0.00
873	427	428	140 0	25.0	128.00	P1	0.00
874	427	428	140 0	25.0	128.00	P1	0.00
875	427	428	140 0	25.0	128.00	P1	0.00
876	427	428	140 0	25.0	128.00	P1	0.00
877	427	428	140 0	25.0	128.00	P1	0.00
878	427	428	140 0	25.0	128.00	P1	0.00
879	427	428	140 0	25.0	128.00	P1	0.00
880	427	428	140 0	25.0	128.00	P1	0.00
881	427	428	140 0	25.0	128.00	P1	0.00
882	427	428	140 0	25.0	128.00	P1	0.00
883	427	428	140 0	25.0	128.00	P1	0.00
884	427	428	140 0	25.0	128.00	P1	0.00
885	427	428	140 0	25.0	128.00	P1	0.00
886	427	428	140 0	25.0	128.00	P1	0.00
887	427	428	140 0	25.0	128.00	P1	0.00
888	427	428	140 0	25.0	128.00	P1	0.00
889	427	428	140 0	25.0	128.00	P1	0.00
890	427	428	140 0	25.0	128.00	P1	0.00
891	427	428	140 0	25.0	128.00	P1	0.00
892	427	428	140 0	25.0	128.00	P1	0.00
893	427	428	140 0	25.0	128.00	P1	0.00
894	427	428	140 0	25.0	128.00	P1	0.00
895	427	428	140 0	25.0	128.00	P1	0.00
896	427	428	140 0	25.0	128.00	P1	0.00
897	427	428	140 0	25.0	128.00	P1	0.00
898	427	428	140 0	25.0	128.00	P1	0.00
899	427	428	140 0	25.0	128.00	P1	0.00
900	427	428	140 0	25.0	128.00	P1	0.00

PUMP DATA

THERE IS A PUMP TO NO 1 IN THE FOLLOWING PIPES:

DESCRIBED BY THE FOLLOWING DATA:

HEAD	FLOWRATE
100	1000
115 00	0 00
100 00	140 00
115 00	1740 00

THERE IS A PUMP TO NO 2 IN THE FOLLOWING PIPES:

DESCRIBED BY THE FOLLOWING DATA:

HEAD	FLOWRATE
100	1000
100 00	0 00
115 00	140 00
130 00	2910 00

THERE IS A PUMP TO NO 3 IN THE FOLLOWING PIPES:

DESCRIBED BY THE FOLLOWING DATA:

HEAD	FLOWRATE
100	1000
100 00	0 00
115 00	850 00
130 00	1400 00

THERE IS A PUMP TO NO 4 IN THE FOLLOWING PIPES:

DESCRIBED BY THE FOLLOWING DATA:

HEAD	FLOWRATE
100	1000
100 00	0 00
115 00	600 00
130 00	1240 00

THERE IS A PUMP TO NO 5 IN THE FOLLOWING PIPES:

DESCRIBED BY THE FOLLOWING DATA:

HEAD	FLOWRATE
100	1000
100 00	0 00
115 00	1140 00
130 00	2300 00

THERE IS A PUMP TO NO 6 IN THE FOLLOWING PIPES:

DESCRIBED BY THE FOLLOWING DATA:

HEAD	FLOWRATE
100	1000
100 00	0 00
115 00	1400 00
130 00	1910 00

THERE IS A PUMP TO NO 7 IN THE FOLLOWING PIPES:

DESCRIBED BY THE FOLLOWING DATA:

HEAD	FLOWRATE
100	1000
100 00	0 00
115 00	1200 00
130 00	1910 00

030

DESCRIBED BY THE FOLLOWING DATA

HEAD (FT)	FLOWRATE (GPM)
106.00	0.00
112.00	2271.00
120.00	1772.00

THAT IS A PUMP TO NO. 9 IN THE FOLLOWING PIPES
030

DESCRIBED BY THE FOLLOWING DATA

HEAD (FT)	FLOWRATE (GPM)
105.00	0.00
114.00	2272.00
126.00	1772.00

THAT IS A PUMP TO NO. 10 IN THE FOLLOWING PIPES
030

DESCRIBED BY THE FOLLOWING DATA

HEAD (FT)	FLOWRATE (GPM)
118.00	0.00
128.00	2272.00
132.00	4536.00

JUNCTION NODE DATA

JUNCTION NO.	JUNCTION TITLE	INTERNAL ELEVATION (FT)	JUNCTION ELEVATION (FT)	CONNECTING PIPE
1		1.20	3010.00	1 13
2		1.00	3012.00	1 3 10
3		20.40	3010.00	2 4 0
4		02.20	3010.00	3 4 5
5		50.70	3007.00	4 4 0
6		41.30	3000.00	5 6 7
7		9.00	3007.00	7 16 14 10
8		11.40	3000.00	8 14 14
9		7.00	3000.00	9 14 14 20
10		4.20	3004.00	10 12 15 31
11		4.00	3007.00	11 17 21
12		5.00	3007.00	12 17 34
13		3.00	3000.00	13 17 31 30
14		2.40	3000.00	14 24 29 31
15		1.20	3000.00	15 24 25 2
16		0.00	3005.00	16 21 21 24
17		4.30	3002.00	17 21 21
18		12.90	3007.00	18 17 16
19		2.00	3007.00	19 14 19 30
20		7.40	3005.00	20 40 40
21		7.32	3005.00	21 40 51
22		10.04	3002.00	22 50 50 50
23		11.30	3002.00	23 40 50 50 51
24		02.00	3004.00	24 40 40 40 24
25		02.00	3004.00	25 40 40 40
26		1.00	3003.00	26 22 40 40
27		1.00	3004.00	27 22 40 40
28		2.00	3006.00	28 24 25 30
29		1.00	3002.00	29 14 41 40
30		0.00	3003.00	30 40 41 41
31		1.00	3002.00	31 42 42 41
32		1.00	3001.00	32 17 30 30
33		3.00	3007.00	33 10 30 30
34		1.00	3001.00	34 30 31 41
35		0.00	3001.00	35 67 40 40
36		0.00	3002.00	36 61 60 60
37		1.00	3003.00	37 62 60 60
38		2.00	3001.00	38 61 60 60 61
39		0.00	3001.00	39 64 64 70
40		00.40	3001.00	40 60 60 61
41		125.30	3004.00	41 51 50 50
42		4.40	3002.00	42 50 50 50
43		3.00	3001.00	43 50 50 50
44		21.20	3000.00	44 61 62 70 71
45		27.04	3001.00	45 61 61 61 72
46		12.40	3007.00	46 70 70 70 80
47		10.10	3009.00	47 70 70
48		22.00	3007.00	48 70 80 80 107
49		4.00	3007.00	49 70 80 110 111
50		20.00	3007.00	50 70 70 117
51		0.00	3007.00	51 70 70
52		1.00	3007.00	52 60 70
53		0.00	3000.00	53 110 110
54		0.00	3004.00	54 110 110 110
55		10.00	3004.00	55 110 110 110
56		10.00	3004.00	56 110 110 110
57		0.00	3000.00	57 110 110 110

57	7 20	3887 05	133	128	112	138
58	26.10	3881 01	134	127	114	139
59	48.30	3889 01	134	109	114	146
60	0 30	3881 01	01	30	115	
61	27.90	3881 01	137	101	116	
62	17 10	3884 01	62	86	117	
63	18 36	3885 01	70	77	81	87
64	6 01	3881 01	03	07	86	
65	12 18	3884 01	02	06	16	89
66	11 40	3881 01	90	96	111	122
67	4 00	3881 01	102	101	124	127
68	4 10	3876 01	138	126	146	
69	1 00	3884 01	119	121	122	
70	0 01	3885 01	110	121	121	
71	16 08	3887 01	87	81	89	
72	1 01	3887 01	78	73		
73	0 07	3884 01	80	51	34	
74	2 40	3889 01	79	91	74	95
75	11 10	3889 01	91	91	97	110
76	0 40	3889 01	97	90	140	149
77	1 00	3876 01	128	131	140	
78	1 00	3876 01	127	141	142	143
79	1 00	3876 01	146	149	147	147
80	1 00	3876 01	126	147	148	149
81	06.40	3876 01	149	151	151	
82	2 00	3880 01	151	152	156	
83	6 40	3882 01	139	142	143	151
84	43 10	3882 01	143	144	147	
85	2 00	3883 01	122	150	153	
86	3 10	3883 01	107	150	147	
87	1 20	3883 01	140	141	141	
88	1 00	3884 01	143	144	144	
89	2346.34	3887 01	147	148		
90	21 10	3889 01	140	149	170	
91	0 10	3889 01	140	171	172	
92	410 00	3889 01	146	147	172	
93	42.20	3884 01	146		174	
94	21 70	3883 01	148		178	
95	0 10	3883 01	170	174	177	178
96	6 20	3883 01	170	179	181	181
97	0 10	3883 01	161	183	183	
98	0 40	3878 01	163	184	181	
99	0 40	3880 01	179	184		
100	0 10	3880 01	142	177	181	
101	0 10	3881 01	159	180	189	
102	42.20	3881 01	146	187	190	
103	46 00	3882 01	145	189	191	
104	46 20	3882 01	146	191	193	192
105	43 20	3876 01	113	187	190	197
106	1 10	3877 01	191	190	217	
107	1 10	3877 01	223	197	217	
108	1 10	3878 01	223	200	218	219
109	21 10	3878 01	240	200	214	217
110	2 20	3880 01	220	210	211	
111	6 20	3882 01	211	213	218	
112	7 40	3872 01	246	217	211	
113	1 10	3881 01	219	221	212	221
114	2 00	3878 01	241	227	214	226
115	0 10	3883 01	241	227	214	
116	0 10	3883 01	241	227	214	
117	0 10	3883 01	241	227	214	
118	2 00	3883 01	229	217	214	
119	0 40	3885 01	210	211	212	
120	0 40	3886 01	210	211	212	
121	0 40	3887 01	210	211	212	
122	0 40	3888 01	210	211	212	
123	0 40	3889 01	210	211	212	
124	0 40	3890 01	210	211	212	
125	0 40	3891 01	210	211	212	
126	0 40	3892 01	210	211	212	
127	0 40	3893 01	210	211	212	
128	0 40	3894 01	210	211	212	
129	0 40	3895 01	210	211	212	
130	0 40	3896 01	210	211	212	
131	0 40	3897 01	210	211	212	
132	0 40	3898 01	210	211	212	
133	0 40	3899 01	210	211	212	
134	0 40	3900 01	210	211	212	
135	0 40	3901 01	210	211	212	
136	0 40	3902 01	210	211	212	
137	0 40	3903 01	210	211	212	
138	0 40	3904 01	210	211	212	
139	0 40	3905 01	210	211	212	
140	0 40	3906 01	210	211	212	
141	0 40	3907 01	210	211	212	
142	0 40	3908 01	210	211	212	
143	0 40	3909 01	210	211	212	
144	0 40	3910 01	210	211	212	
145	0 40	3911 01	210	211	212	
146	0 40	3912 01	210	211	212	
147	0 40	3913 01	210	211	212	
148	0 40	3914 01	210	211	212	
149	0 40	3915 01	210	211	212	
150	0 40	3916 01	210	211	212	
151	0 40	3917 01	210	211	212	
152	0 40	3918 01	210	211	212	
153	0 40	3919 01	210	211	212	
154	0 40	3920 01	210	211	212	
155	0 40	3921 01	210	211	212	

251	3.00	3075 00	334	325	393	
252	277 80	3075 00	335	324	407	
253	0.00	3075 00	336	323	381	
254	1.00	3075 00	337	322	383	
255	0.00	3075 00	338	321	385	
256	0.00	3075 00	339	320		
257	0.00	3075 00	340	319	376	
258	0.00	3075 00	341	318	367	
259	0.00	3075 00	342	317	370	
260	1.00	3075 00	343	316	389	
261	2.00	3085 00	344	315	374	
262	0.00	3090 00	345	314	419	
263	0.00	3090 00	346	313	413	417
264	0.00	3090 00	347	312	418	420
265	0.00	3090 00	348	311	417	421
266	6.00	3090 00	349	310	422	
267	0.00	3090 00	350	309	407	
268	0.00	3090 00	351	308	425	
269	0.00	3090 00	352	307		
270	1.00	3090 00	353	306	391	
271	3.00	3090 00	354	305	392	394
272	0.00	3090 00	355	304		
273	1.00	3090 00	356	303	400	402
274	2.10	3090 00	357	302	396	404
275	1.00	3090 00	358	301	398	399 404
276	0.00	3090 00	359	300	405	
277	0.00	3090 00	360	299	422	449
278	0.00	3090 00	361	298		
279	0.00	3090 00	362	297	451	
280	0.00	3090 00	363	296	452	454
281	1.00	3090 00	364	295		
282	1.00	3090 00	365	294	405	
283	2.00	3090 00	366	293	406	
284	2.00	3090 00	367	292	407	
285	2.00	3090 00	368	291	408	
286	2.00	3090 00	369	290	409	
287	2.00	3090 00	370	289	410	
288	2.00	3090 00	371	288	411	
289	2.00	3090 00	372	287	412	
290	2.00	3090 00	373	286	413	
291	2.00	3090 00	374	285	414	
292	2.00	3090 00	375	284	415	
293	2.00	3090 00	376	283	416	
294	2.00	3090 00	377	282	417	
295	2.00	3090 00	378	281	418	
296	2.00	3090 00	379	280	419	
297	2.00	3090 00	380	279	420	
298	2.00	3090 00	381	278	421	
299	2.00	3090 00	382	277	422	
300	2.00	3090 00	383	276	423	
301	2.00	3090 00	384	275	424	
302	2.00	3090 00	385	274	425	
303	2.00	3090 00	386	273	426	
304	2.00	3090 00	387	272	427	
305	2.00	3090 00	388	271	428	
306	2.00	3090 00	389	270	429	
307	2.00	3090 00	390	269	430	
308	2.00	3090 00	391	268	431	
309	2.00	3090 00	392	267	432	
310	2.00	3090 00	393	266	433	
311	2.00	3090 00	394	265	434	
312	2.00	3090 00	395	264	435	
313	2.00	3090 00	396	263	436	
314	2.00	3090 00	397	262	437	
315	2.00	3090 00	398	261	438	
316	2.00	3090 00	399	260	439	
317	2.00	3090 00	400	259	440	
318	2.00	3090 00	401	258	441	
319	2.00	3090 00	402	257	442	
320	2.00	3090 00	403	256	443	
321	2.00	3090 00	404	255	444	
322	2.00	3090 00	405	254	445	
323	2.00	3090 00	406	253	446	
324	2.00	3090 00	407	252	447	
325	2.00	3090 00	408	251	448	
326	2.00	3090 00	409	250	449	
327	2.00	3090 00	410	249	450	
328	2.00	3090 00	411	248	451	
329	2.00	3090 00	412	247	452	
330	2.00	3090 00	413	246	453	
331	2.00	3090 00	414	245	454	
332	2.00	3090 00	415	244	455	
333	2.00	3090 00	416	243	456	
334	2.00	3090 00	417	242	457	
335	2.00	3090 00	418	241	458	
336	2.00	3090 00	419	240	459	
337	2.00	3090 00	420	239	460	
338	2.00	3090 00	421	238	461	
339	2.00	3090 00	422	237	462	
340	2.00	3090 00	423	236	463	
341	2.00	3090 00	424	235	464	
342	2.00	3090 00	425	234	465	
343	2.00	3090 00	426	233	466	
344	2.00	3090 00	427	232	467	
345	2.00	3090 00	428	231	468	
346	2.00	3090 00	429	230	469	
347	2.00	3090 00	430	229	470	
348	2.00	3090 00	431	228	471	
349	2.00	3090 00	432	227	472	
350	2.00	3090 00	433	226	473	
351	2.00	3090 00	434	225	474	
352	2.00	3090 00	435	224	475	
353	2.00	3090 00	436	223	476	
354	2.00	3090 00	437	222	477	
355	2.00	3090 00	438	221	478	
356	2.00	3090 00	439	220	479	
357	2.00	3090 00	440	219	480	
358	2.00	3090 00	441	218	481	
359	2.00	3090 00	442	217	482	
360	2.00	3090 00	443	216	483	
361	2.00	3090 00	444	215	484	
362	2.00	3090 00	445	214	485	
363	2.00	3090 00	446	213	486	
364	2.00	3090 00	447	212	487	
365	2.00	3090 00	448	211	488	
366	2.00	3090 00	449	210	489	
367	2.00	3090 00	450	209	490	
368	2.00	3090 00	451	208	491	
369	2.00	3090 00	452	207	492	
370	2.00	3090 00	453	206	493	
371	2.00	3090 00	454	205	494	
372	2.00	3090 00	455	204	495	
373	2.00	3090 00	456	203	496	
374	2.00	3090 00	457	202	497	
375	2.00	3090 00	458	201	498	
376	2.00	3090 00	459	200	499	
377	2.00	3090 00	460	199	500	
378	2.00	3090 00	461	198	501	
379	2.00	3090 00	462	197	502	
380	2.00	3090 00	463	196	503	
381	2.00	3090 00	464	195	504	
382	2.00	3090 00	465	194	505	
383	2.00	3090 00	466	193	506	
384	2.00	3090 00	467	192	507	
385	2.00	3090 00	468	191	508	
386	2.00	3090 00	469	190	509	
387	2.00	3090 00	470	189	510	
388	2.00	3090 00	471	188	511	
389	2.00	3090 00	472	187	512	
390	2.00	3090 00	473	186	513	
391	2.00	3090 00	474	185	514	
392	2.00	3090 00	475	184	515	
393	2.00	3090 00	476	183	516	
394	2.00	3090 00	477	182	517	
395	2.00	3090 00	478	181	518	
396	2.00	3090 00	479	180	519	
397	2.00	3090 00	480	179	520	
398	2.00	3090 00	481	178	521	
399	2.00	3090 00	482	177	522	
400	2.00	3090 00	483	176	523	
401	2.00	3090 00	484	175	524	
402	2.00	3090 00	485	174	525	
403	2.00	3090 00	486	173	526	
404	2.00	3090 00	487	172	527	
405	2.00	3090 00	488	171	528	
406	2.00	3090 00	489	170	529	
407	2.00	3090 00	490	169	530	
408	2.00	3090 00	491	168	531	
409	2.00	3090 00	492	167	532	
410	2.00	3090 00	493	166	533	
411	2.00	3090 00	494	165	534	
412	2.00	3090 00	495	164	535	
413	2.00	3090 00	496	163	536	
414	2.00	3090 00	497	162	537	
415	2.00	3090 00	498	161	538	
416	2.00	3090 00	499	160	539	
417	2.00	3090 00	500	159	540	
418	2.00	3090 00	501	158	541	
419	2.00	3090 00	502	157	542	
420	2.00	3090 00	503	156	543	
421	2.00	3090 00	504	155	544	
422	2.00	3090 00	505	154	545	
423	2.00	3090 00	506	153	546	
424	2.00	3090 00	507	152	547	
425	2.00	3090 00	508	151	548	
426	2.00	3090 00	509	150	549	
427	2.00	3090 00	510	149	550	
428	2.00	3090 00	511	148	551	
429	2.00	3090 00	512	147	552	
430	2.00	3090 00	513	146	553	
431	2.00	3090 00	514	145	554	
432	2.00	3090 00	515	144	555	
433	2.00	3090 00	516	143	556	
434	2.00	3090 00	517	142	557	
435	2.00	3090 00	518	141	558	
436	2.00	3090 00	519	140	559	
437	2.00	3090 00	520	139	560	
438	2.00	3090 00	521	138	561	
439	2.00	3090 00	522	137	562	
440	2.00	3090 00	523	136	563	
441	2.00	3090 00	524	135	564	
442	2.00	3090 00	525	134	565	
443	2.00	3090 00	526	133	566	
444	2.00	3090 00	527	132	567	
445	2.00	3090 00	528	131	568	
446	2.00	3090 00	529	130	569	
447	2.00	3090 00	530	129	570	
448	2.00	3090 00	531	128	571	
449	2.00	3090 00	532	127	572	
450	2.00	3090 00	533	126	573	
451	2.00	3090 00	534	125	574	
452	2.00	3090 00	535	124	575	
453	2.00	3090 00	536			

356	1.00	4040	00	618	442	
357	1.00	4030	00	612	433	434
358	1.00	4020	00	606	424	425
359	1.00	4010	00	600	415	416
360	1.00	4000	00	594	406	407
361	1.00	3990	00	588	397	398
362	1.00	3980	00	582	388	389
363	1.00	3970	00	576	379	380
364	1.00	3960	00	570	370	371
365	1.00	3950	00	564	361	362
366	1.00	3940	00	558	352	353
367	1.00	3930	00	552	343	344
368	1.00	3920	00	546	334	335
369	1.00	3910	00	540	325	326
370	1.00	3900	00	534	316	317
371	1.00	3890	00	528	307	308
372	1.00	3880	00	522	298	299
373	1.00	3870	00	516	289	290
374	1.00	3860	00	510	280	281
375	1.00	3850	00	504	271	272
376	1.00	3840	00	498	262	263
377	1.00	3830	00	492	253	254
378	1.00	3820	00	486	244	245
379	1.00	3810	00	480	235	236
380	1.00	3800	00	474	226	227
381	1.00	3790	00	468	217	218
382	1.00	3780	00	462	208	209
383	1.00	3770	00	456	199	200
384	1.00	3760	00	450	190	191
385	1.00	3750	00	444	181	182
386	1.00	3740	00	438	172	173
387	1.00	3730	00	432	163	164
388	1.00	3720	00	426	154	155
389	1.00	3710	00	420	145	146
390	1.00	3700	00	414	136	137
391	1.00	3690	00	408	127	128
392	1.00	3680	00	402	118	119
393	1.00	3670	00	396	109	110
394	1.00	3660	00	390	100	101
395	1.00	3650	00	384	91	92
396	1.00	3640	00	378	82	83
397	1.00	3630	00	372	73	74
398	1.00	3620	00	366	64	65
399	1.00	3610	00	360	55	56
400	1.00	3600	00	354	46	47
401	1.00	3590	00	348	37	38
402	1.00	3580	00	342	28	29
403	1.00	3570	00	336	19	20
404	1.00	3560	00	330	10	11
405	1.00	3550	00	324	1	2
406	1.00	3540	00	318		
407	1.00	3530	00	312		
408	1.00	3520	00	306		
409	1.00	3510	00	300		
410	1.00	3500	00	294		
411	1.00	3490	00	288		
412	1.00	3480	00	282		
413	1.00	3470	00	276		
414	1.00	3460	00	270		
415	1.00	3450	00	264		
416	1.00	3440	00	258		
417	1.00	3430	00	252		
418	1.00	3420	00	246		
419	1.00	3410	00	240		
420	1.00	3400	00	234		
421	1.00	3390	00	228		
422	1.00	3380	00	222		
423	1.00	3370	00	216		
424	1.00	3360	00	210		
425	1.00	3350	00	204		
426	1.00	3340	00	198		
427	1.00	3330	00	192		
428	1.00	3320	00	186		
429	1.00	3310	00	180		
430	1.00	3300	00	174		
431	1.00	3290	00	168		
432	1.00	3280	00	162		
433	1.00	3270	00	156		
434	1.00	3260	00	150		
435	1.00	3250	00	144		
436	1.00	3240	00	138		
437	1.00	3230	00	132		
438	1.00	3220	00	126		
439	1.00	3210	00	120		
440	1.00	3200	00	114		
441	1.00	3190	00	108		
442	1.00	3180	00	102		
443	1.00	3170	00	96		
444	1.00	3160	00	90		
445	1.00	3150	00	84		
446	1.00	3140	00	78		
447	1.00	3130	00	72		
448	1.00	3120	00	66		
449	1.00	3110	00	60		
450	1.00	3100	00	54		
451	1.00	3090	00	48		
452	1.00	3080	00	42		
453	1.00	3070	00	36		
454	1.00	3060	00	30		
455	1.00	3050	00	24		
456	1.00	3040	00	18		
457	1.00	3030	00	12		
458	1.00	3020	00	6		
459	1.00	3010	00	0		
460	1.00	3000	00			

OUTPUT OPTION DATA

OUTPUT SELECTION: ALL RESULTS ARE INCLUDED IN THE TABULATED OUTPUT
 MAXIMUM AND MINIMUM PRESSURES: 1.0
 MAXIMUM AND MINIMUM HEAD LOSS/1000: 1.0

SYSTEM CONFIGURATION

NUMBER OF PIPES: 10
 NUMBER OF JUNCTION NODES: 10
 NUMBER OF PRIMARY LOOPS: 1
 NUMBER OF FIXED ORAL NODES: 1
 NUMBER OF SUPPLY NODES: 1

SIMULATION RESULTS

THE RESULTS ARE OBTAINED AFTER 1 TRIALS WITH AN ACCURACY = 0.0001

PIPELINE RESULTS

STATUS CODE: K1 - CLOSED PIPE FD - FIXED GRADE NODE PU - PUMP LINE
C1 - CHECK VALVE BV - ISOLATING VALVE SN - STORAGE TANK

PIPE NUMBER	NO.1 SI	NO.2 SI	FLOWRATE (GPM)	HEAD LOSS (FT)	PUMP HEAD (FT)	PUMP LABEL	MINOR LOSS (FT)	LINK VELOCITY (FT/SEC)	ML 1000 (L/SEC)
1	1	2	10.00	0.00	0.00		0.00	0.12	2.02
2	2	3	10.00	0.00	0.00		0.00	0.12	0.31
3	3	4	10.00	0.00	0.00		0.00	0.12	0.59
4	4	5	10.00	0.00	0.00		0.00	0.12	0.87
5	5	6	10.00	0.00	0.00		0.00	0.12	1.15
6	6	7	10.00	0.00	0.00		0.00	0.12	1.43
7	7	8	10.00	0.00	0.00		0.00	0.12	1.71
8	8	9	10.00	0.00	0.00		0.00	0.12	2.00
9	9	10	10.00	0.00	0.00		0.00	0.12	2.28
10	10	11	10.00	0.00	0.00		0.00	0.12	2.56
11	11	12	10.00	0.00	0.00		0.00	0.12	2.84
12	12	13	10.00	0.00	0.00		0.00	0.12	3.12
13	13	14	10.00	0.00	0.00		0.00	0.12	3.40
14	14	15	10.00	0.00	0.00		0.00	0.12	3.68
15	15	16	10.00	0.00	0.00		0.00	0.12	3.96
16	16	17	10.00	0.00	0.00		0.00	0.12	4.24
17	17	18	10.00	0.00	0.00		0.00	0.12	4.52
18	18	19	10.00	0.00	0.00		0.00	0.12	4.80
19	19	20	10.00	0.00	0.00		0.00	0.12	5.08
20	20	21	10.00	0.00	0.00		0.00	0.12	5.36
21	21	22	10.00	0.00	0.00		0.00	0.12	5.64
22	22	23	10.00	0.00	0.00		0.00	0.12	5.92
23	23	24	10.00	0.00	0.00		0.00	0.12	6.20
24	24	25	10.00	0.00	0.00		0.00	0.12	6.48
25	25	26	10.00	0.00	0.00		0.00	0.12	6.76
26	26	27	10.00	0.00	0.00		0.00	0.12	7.04
27	27	28	10.00	0.00	0.00		0.00	0.12	7.32
28	28	29	10.00	0.00	0.00		0.00	0.12	7.60
29	29	30	10.00	0.00	0.00		0.00	0.12	7.88
30	30	31	10.00	0.00	0.00		0.00	0.12	8.16
31	31	32	10.00	0.00	0.00		0.00	0.12	8.44
32	32	33	10.00	0.00	0.00		0.00	0.12	8.72
33	33	34	10.00	0.00	0.00		0.00	0.12	9.00
34	34	35	10.00	0.00	0.00		0.00	0.12	9.28
35	35	36	10.00	0.00	0.00		0.00	0.12	9.56
36	36	37	10.00	0.00	0.00		0.00	0.12	9.84
37	37	38	10.00	0.00	0.00		0.00	0.12	10.12
38	38	39	10.00	0.00	0.00		0.00	0.12	10.40
39	39	40	10.00	0.00	0.00		0.00	0.12	10.68
40	40	41	10.00	0.00	0.00		0.00	0.12	10.96
41	41	42	10.00	0.00	0.00		0.00	0.12	11.24
42	42	43	10.00	0.00	0.00		0.00	0.12	11.52
43	43	44	10.00	0.00	0.00		0.00	0.12	11.80
44	44	45	10.00	0.00	0.00		0.00	0.12	12.08
45	45	46	10.00	0.00	0.00		0.00	0.12	12.36
46	46	47	10.00	0.00	0.00		0.00	0.12	12.64
47	47	48	10.00	0.00	0.00		0.00	0.12	12.92
48	48	49	10.00	0.00	0.00		0.00	0.12	13.20
49	49	50	10.00	0.00	0.00		0.00	0.12	13.48
50	50	51	10.00	0.00	0.00		0.00	0.12	13.76
51	51	52	10.00	0.00	0.00		0.00	0.12	14.04
52	52	53	10.00	0.00	0.00		0.00	0.12	14.32
53	53	54	10.00	0.00	0.00		0.00	0.12	14.60
54	54	55	10.00	0.00	0.00		0.00	0.12	14.88
55	55	56	10.00	0.00	0.00		0.00	0.12	15.16
56	56	57	10.00	0.00	0.00		0.00	0.12	15.44
57	57	58	10.00	0.00	0.00		0.00	0.12	15.72
58	58	59	10.00	0.00	0.00		0.00	0.12	16.00
59	59	60	10.00	0.00	0.00		0.00	0.12	16.28
60	60	61	10.00	0.00	0.00		0.00	0.12	16.56
61	61	62	10.00	0.00	0.00		0.00	0.12	16.84
62	62	63	10.00	0.00	0.00		0.00	0.12	17.12
63	63	64	10.00	0.00	0.00		0.00	0.12	17.40
64	64	65	10.00	0.00	0.00		0.00	0.12	17.68
65	65	66	10.00	0.00	0.00		0.00	0.12	17.96
66	66	67	10.00	0.00	0.00		0.00	0.12	18.24
67	67	68	10.00	0.00	0.00		0.00	0.12	18.52
68	68	69	10.00	0.00	0.00		0.00	0.12	18.80
69	69	70	10.00	0.00	0.00		0.00	0.12	19.08
70	70	71	10.00	0.00	0.00		0.00	0.12	19.36
71	71	72	10.00	0.00	0.00		0.00	0.12	19.64
72	72	73	10.00	0.00	0.00		0.00	0.12	19.92
73	73	74	10.00	0.00	0.00		0.00	0.12	20.20
74	74	75	10.00	0.00	0.00		0.00	0.12	20.48
75	75	76	10.00	0.00	0.00		0.00	0.12	20.76
76	76	77	10.00	0.00	0.00		0.00	0.12	21.04
77	77	78	10.00	0.00	0.00		0.00	0.12	21.32
78	78	79	10.00	0.00	0.00		0.00	0.12	21.60
79	79	80	10.00	0.00	0.00		0.00	0.12	21.88
80	80	81	10.00	0.00	0.00		0.00	0.12	22.16
81	81	82	10.00	0.00	0.00		0.00	0.12	22.44
82	82	83	10.00	0.00	0.00		0.00	0.12	22.72
83	83	84	10.00	0.00	0.00		0.00	0.12	23.00
84	84	85	10.00	0.00	0.00		0.00	0.12	23.28
85	85	86	10.00	0.00	0.00		0.00	0.12	23.56
86	86	87	10.00	0.00	0.00		0.00	0.12	23.84
87	87	88	10.00	0.00	0.00		0.00	0.12	24.12
88	88	89	10.00	0.00	0.00		0.00	0.12	24.40
89	89	90	10.00	0.00	0.00		0.00	0.12	24.68
90	90	91	10.00	0.00	0.00		0.00	0.12	24.96
91	91	92	10.00	0.00	0.00		0.00	0.12	25.24
92	92	93	10.00	0.00	0.00		0.00	0.12	25.52
93	93	94	10.00	0.00	0.00		0.00	0.12	25.80
94	94	95	10.00	0.00	0.00		0.00	0.12	26.08
95	95	96	10.00	0.00	0.00		0.00	0.12	26.36
96	96	97	10.00	0.00	0.00		0.00	0.12	26.64
97	97	98	10.00	0.00	0.00		0.00	0.12	26.92
98	98	99	10.00	0.00	0.00		0.00	0.12	27.20
99	99	100	10.00	0.00	0.00		0.00	0.12	27.48

69	73	126	-81.91	0.44	0.03	0.03	1.04	1.76
92	75	124	-78.20	0.43	0.00	0.00	0.00	1.31
91	127	124	123.61	0.37	0.00	0.00	1.52	1.53
92	121	125	42.38	0.24	0.00	0.00	0.48	0.42
93	124	76	-58.76	1.01	0.03	0.00	0.47	0.77
94	76	76	-83.38	0.19	0.03	0.00	0.00	1.47
95	76	77	-119.42	1.12	0.03	0.00	1.16	1.56
96	77	67	-344.86	1.10	0.00	0.00	1.41	1.39
97	77	76	-282.69	1.45	0.00	0.00	1.00	1.48
98	78	68	-149.24	0.16	0.00	0.00	0.45	1.16
99	67	66	-233.10	0.10	0.00	0.00	0.95	0.60
100	66	63	-124.00	2.07	0.00	0.00	1.18	1.22
101	68	63	-659.61	1.05	0.00	0.00	1.07	1.91
102	68	68	268.88	0.48	0.00	0.00	1.09	0.87
103	69	58	80.11	2.50	0.00	0.00	0.91	1.37
104	63	61	-791.30	0.94	0.00	0.00	2.24	2.67
105	61	62	113.61	1.11	0.00	0.00	1.26	2.58
106	61	60	501.18	0.80	0.00	0.00	1.47	1.15
107	60	60	197.40	0.34	0.00	0.00	0.81	0.90
108	59	61	-161.75	1.10	0.00	0.00	1.33	0.60
109	60	61	115.86	0.25	0.00	0.00	0.33	0.60
110	57	60	54.68	0.31	0.00	0.00	0.67	0.67
111	57	49	84.68	0.31	0.00	0.00	0.67	0.67
112	59	18	212.97	2.89	0.00	0.00	2.42	0.16
113	59	55	-51.32	0.10	0.00	0.00	0.33	0.60
114	58	16	-293.85	1.61	0.00	0.00	1.97	2.30
115	56	60	-709.36	1.77	0.00	0.00	2.28	2.57
116	51	16	187.64	0.00	0.00	0.00	2.39	2.00
117	51	14	-171.10	0.94	0.00	0.00	1.09	0.78
118	51	72	271.10	0.00	0.00	0.00	1.39	0.76
119	14	71	170.48	1.25	0.00	0.00	2.71	1.67
120	71	72	211.38	0.15	0.00	0.00	0.65	0.38
121	72	80	272.47	1.10	0.00	0.00	1.74	1.77
122	71	07	161.10	0.75	0.00	0.00	2.55	1.49
123	89	85	-218.02	1.41	0.00	0.00	1.31	1.84
124	83	88	-263.89	0.99	0.00	0.00	1.07	0.84
125	73	89	-31.86	0.13	0.00	0.00	0.25	0.12
126	73	69	-110.34	2.43	0.00	0.00	1.25	2.67
127	69	80	71.71	0.78	0.00	0.00	0.81	1.11
128	78	79	125.91	0.24	0.00	0.00	0.82	0.81
129	78	121	-270.80	0.25	0.00	0.00	0.77	0.37
130	79	122	597.77	1.11	0.00	0.00	1.41	1.13
131	122	123	-82.39	0.47	0.00	0.00	1.14	0.79
132	123	126	-123.81	0.46	0.00	0.00	1.58	2.04
133	124	162	83.75	2.71	0.00	0.00	1.06	1.83
134	125	126	-128.76	0.31	0.00	0.00	0.84	0.92
135	125	163	648.01	0.43	0.00	0.00	1.27	0.92
136	123	120	877.96	0.75	0.00	0.00	1.46	1.64
137	129	121	680.48	0.42	0.00	0.00	1.91	2.89
138	121	120	412.44	0.45	0.00	0.00	1.69	1.29
139	120	79	-30.65	0.31	0.00	0.00	0.13	0.03
140	79	80	134.67	0.32	0.00	0.00	1.19	1.20
141	123	129	168.89	0.16	0.00	0.00	2.30	0.87
142	120	80	71.19	0.31	0.00	0.00	0.82	1.13
143	117	80	-162.41	1.35	0.00	0.00	1.73	2.01
144	117	81	-31.44	0.31	0.00	0.00	1.16	1.24
145	80	81	83.16	1.14	0.00	0.00	1.00	1.01
146	81	71	-120.10	0.35	0.00	0.00	0.87	0.43
147	81	82	189.17	0.46	0.00	0.00	2.11	0.47
148	113	82	-273.54	0.77	0.00	0.00	1.12	0.91
149	82	83	174.12	0.38	0.00	0.00	1.11	0.77
150	188	83	-76.78	0.41	0.00	0.00	0.86	0.67
151	84	83	-13.95	1.00	0.00	0.00	0.00	0.00
152	84	85	-60.13	0.31	0.00	0.00	0.42	0.23
153	85	84	83.86	0.24	0.00	0.00	0.16	0.20
154	167	84	-72.47	0.88	1.00	0.00	0.67	0.68
155	164	84	-76.84	0.89	1.00	0.00	0.97	0.69
156	183	86	-148.21	0.41	1.00	0.00	0.93	0.91
157	86	89	-131.15	1.87	1.00	0.00	0.84	0.46
158	87	89	119.18	1.16	1.00	0.00	2.16	2.46
159	87	104	1241.22	0.05	0.00	0.00	2.01	0.84
160	86	89	297.42	0.32	0.00	0.00	1.73	1.27
161	89	90	-23.17	1.81	0.00	0.00	0.18	0.10
162	181	90	-232.19	0.97	0.00	0.00	1.72	1.38
163	89	91	339.79	0.74	1.00	0.00	2.35	3.21
164	88	91	368.70	1.98	0.00	0.00	2.35	3.21
165	97	161	641.99	1.94	0.00	0.00	1.20	0.97
166	91	94	568.05	0.47	0.00	0.00	2.41	0.62
167	93	92	85.79	0.00	0.00	0.00	6.74	16.91
168	93	94	771.97	0.38	0.00	0.00	0.76	0.38
169	93	94	-297.16	0.75	0.00	0.00	1.17	0.64
170	93	163	-491.71	0.33	1.00	0.00	0.40	21.76
171	94	95	-746.41	0.13	0.00	0.00	0.74	11.43
172	94	95	649.38	1.34	0.00	0.00	2.87	4.66
173	94	164	71.32	1.20	0.00	0.00	0.45	0.10
174	94	96	-482.42	1.89	1.00	0.00	1.08	5.29
175	97	167	219.05	1.34	0.00	0.00	1.40	1.10
176	97	98	-888.73	0.63	0.00	0.00	0.04	15.73
177	96	161	-1678.73	0.38	0.00	0.00	1.91	1.24
178	98	99	169.18	0.78	0.00	0.00	1.48	2.24
179	162	99	-48.14	0.24	0.00	0.00	0.83	0.33
180	99	162	84.15	0.64	0.00	0.00	0.96	0.82
181	99	162	172.23	0.13	0.00	0.00	1.10	0.78
182	109	163	140.03	0.51	0.00	0.00	0.89	0.93
183	109	163	74.58	0.44	0.00	0.00	1.17	1.16

100	125	132	-77.20	0.02	0.00	0.00	0.16	0.01
101	106	130	93.09	0.52	0.00	0.00	0.57	0.27
102	139	162	137.86	0.44	0.00	0.00	0.99	0.43
103	127	106	20.06	0.01	0.00	0.00	0.13	0.33
104	139	130	-109.46	0.30	0.00	0.00	0.70	0.40
105	130	107	-31.64	0.32	0.00	0.00	0.16	0.24
106	139	137	-77.02	0.09	0.00	0.00	0.50	0.17
107	137	107	19.42	0.01	0.00	0.00	0.12	0.32
108	137	100	-28.32	0.16	0.00	0.00	0.29	0.16
109	139	130	12.17	0.00	0.00	0.00	0.88	0.01
110	136	137	56.49	0.02	0.00	0.00	0.36	0.10
111	136	139	-22.42	0.13	0.00	0.00	0.57	0.14
112	139	130	-26.70	0.02	0.00	0.00	0.22	0.08
113	139	137	33.00	0.01	0.00	0.00	0.21	0.04
114	139	130	-24.38	0.14	0.00	0.00	0.20	0.15
115	139	131	-42.33	0.05	0.00	0.00	0.47	0.21
116	139	139	9.33	0.00	0.00	0.00	0.04	0.00
117	139	131	-123.05	0.10	0.00	0.00	0.90	0.23
118	132	131	221.31	0.09	0.00	0.00	0.94	0.67
119	132	130	-86.07	0.01	0.00	0.00	0.12	0.00
120	131	133	42.80	0.04	0.00	0.00	0.27	0.11
121	139	131	122.86	0.37	0.00	0.00	0.46	0.16
122	139	139	-31.17	0.32	0.00	0.00	0.36	0.24
123	132	134	9.32	0.00	0.00	0.00	0.04	0.01
124	139	132	74.30	0.26	0.00	0.00	0.47	0.29
125	132	133	-106.42	0.01	0.00	0.00	0.40	0.17
126	132	149	100.32	0.66	0.00	0.00	1.15	1.53
127	131	131	37.39	0.02	0.00	0.00	0.34	0.08
128	139	134	64.08	0.02	0.00	0.00	0.41	0.23
129	131	139	-36.25	0.29	0.00	0.00	0.41	0.31
130	130	131	-72.86	0.15	0.00	0.00	0.46	0.20
131	130	136	-48.70	0.02	0.00	0.00	0.58	0.08
132	139	136	108.03	0.08	0.00	0.00	0.59	0.39
133	130	140	111.34	0.31	0.00	0.00	0.71	0.62
134	130	137	-178.30	0.19	0.00	0.00	0.62	0.51
135	130	130	19.69	0.02	0.00	0.00	0.13	0.03
136	130	147	209.65	0.19	0.00	0.00	0.86	0.11
137	139	146	14.47	0.23	0.00	0.00	0.38	0.16
138	139	130	308.03	0.30	0.00	0.00	1.95	4.22
139	139	145	1208.17	0.27	0.00	0.00	3.64	6.55
140	130	129	1073.01	0.60	0.00	0.00	5.40	14.51
141	130	00	-2433.21	0.48	0.00	0.00	0.96	21.72
142	130	127	140.04	0.40	0.00	0.00	1.41	1.40
143	127	141	120.76	0.26	0.00	0.00	0.20	7.69
144	140	141	-207.80	0.39	0.00	0.00	1.33	7.06
145	140	133	-110.70	0.20	0.00	0.00	1.47	0.10
146	133	134	-127.90	0.10	0.00	0.00	0.40	0.19
147	134	133	-143.47	0.11	0.00	0.00	0.90	0.73
148	133	131	-183.21	0.12	0.00	0.00	1.03	0.70
149	131	141	-288.33	0.30	0.00	0.00	1.04	0.42
150	133	131	0.77	0.00	0.00	0.00	0.03	0.30
151	141	141	-271.10	0.34	0.00	0.00	1.12	0.89
152	143	144	-43.37	0.03	0.00	0.00	0.20	0.11
153	144	145	-138.49	0.21	0.00	0.00	0.80	0.77
154	145	146	233.00	0.07	0.00	0.00	1.49	0.43
155	146	147	187.46	0.20	0.00	0.00	1.07	0.39
156	147	146	182.11	0.05	0.00	0.00	1.23	0.70
157	149	170	203.10	0.23	0.00	0.00	1.16	0.97
158	148	149	11.80	0.01	0.00	0.00	0.00	0.01
159	149	149	-119.24	0.03	0.00	0.00	0.70	0.60
160	149	150	70.40	0.18	0.00	0.00	0.48	0.20
161	150	151	16.06	0.01	0.00	0.00	0.10	0.01
162	151	152	-44.09	0.07	0.00	0.00	0.20	0.11
163	152	154	27.70	0.01	0.00	0.00	0.20	0.02
164	154	155	-23.19	0.01	0.00	0.00	0.70	0.35
165	155	156	109.63	0.11	0.00	0.00	1.21	0.91
166	156	157	130.10	0.09	0.00	0.00	1.12	1.03
167	157	158	203.70	0.02	0.00	0.00	1.43	0.15
168	158	159	143.45	0.30	0.00	0.00	0.42	0.10
169	159	161	-528.10	0.42	0.00	0.00	0.13	0.15
170	161	162	-931.05	0.77	0.00	0.00	0.91	1.09
171	162	162	303.19	0.29	0.00	0.00	1.41	1.26
172	163	163	-106.12	0.07	0.00	0.00	1.70	0.27
173	163	164	-149.92	0.47	0.00	0.00	0.97	0.60
174	164	165	102.34	0.07	0.00	0.00	1.10	1.01
175	164	166	-121.72	0.13	0.00	0.00	0.17	0.02
176	165	167	-26.28	0.01	0.00	0.00	0.16	0.10
177	167	167	36.48	0.12	0.00	0.00	0.16	0.01
178	167	166	-40.89	0.10	0.00	0.00	0.27	0.00
179	168	169	41.89	0.12	0.00	0.00	0.71	0.61
180	169	166	110.07	0.18	0.00	0.00	0.93	1.02
181	169	161	148.26	0.31	0.00	0.00	0.93	1.02
182	164	167	-16.29	0.05	0.00	0.00	0.21	0.08
183	169	161	92.74	0.30	0.00	0.00	0.99	0.44
184	163	167	-62.50	0.06	0.00	0.00	0.40	0.21
185	167	169	-42.41	0.02	0.00	0.00	0.17	0.03
186	169	170	32.64	0.04	0.00	0.00	0.21	0.04
187	169	170	-10.79	0.04	0.00	0.00	0.32	0.14
188	169	165	-63.62	0.05	0.00	0.00	0.35	0.17
189	169	169	-19.77	0.01	0.00	0.00	0.16	0.03
190	170	169	-14.71	0.01	0.00	0.00	0.09	0.01
191	170	169	-49.21	0.07	0.00	0.00	0.44	0.36
192	169	170	8.27	0.00	0.00	0.00	0.02	0.30
193	177	170	-41.51	0.10	0.00	0.00	0.43	0.14
194	177	170	-744.51	0.25	0.00	0.00	1.10	1.00

287	161	172	238 57	0 99	0 00	0.00	2.31	1 53
288	174	175	-38 76	0 09	0 00	0 00	0.44	0 36
289	173	176	38 42	0 17	0 00	0 00	0.63	0 49
290	172	177	-54 89	0 20	0 00	0.00	0.61	0.25
291	172	171	3 87	0 00	0 00	0.00	0.02	0 03
292	172	226	75.03	0 98	0 00	0 00	0.86	0 67
293	121	187	54 76	0 06	0 00	0 00	0.30	0 19
294	221	221	210 02	0 10	0 00	0 00	0.87	0 50
295	221	222	-204 25	0 23	0 00	0 00	0.54	0 32
296	174	227	131 94	0 41	0 00	0 00	0.84	0 55
297	179	220	44 50	0 44	0 00	0 00	0.73	0 51
298	179	221	340 22	0 39	0 00	0 00	1.29	0 94
299	176	218	830 70	0 34	0 00	0 00	1.10	0 82
300	220	219	-125.92	0 25	0 00	0 00	0.56	0 20
301	224	225	-177 63	0 01	0 00	0.00	0.50	0 27
302	225	226	-246 37	0 30	0 00	0 00	0.70	0 31
303	226	227	-170 63	0 35	0 00	0 00	0.51	0 27
304	227	228	-197 27	0 04	0 00	0 00	0.55	0 23
305	228	229	-137 32	0 83	0 00	0 00	0.39	0 13
306	229	230	-338.04	0 12	0 00	0 00	1.34	0 70
307	229	231	-170 54	0 03	0 00	0 00	0.40	0 16
308	230	230	-333 90	0 05	0 00	0 00	0.95	0 34
309	232	231	141.03	0 01	0 00	0 00	0.46	0 14
310	231	217	-10 01	0 00	0 00	0 00	0.11	0 02
311	218	217	378 02	0 07	0 00	0 00	1.55	1 07
312	219	218	-713 72	0 08	0 00	0 00	2.49	1 64
313	219	219	-270 94	0 01	0 00	0 00	0.62	0 18
314	216	221	-1027 76	0 84	0 00	0 00	3.18	2 02
315	216	197	-344 00	0 25	0 00	0 00	0.76	0 28
316	249	214	-1041 51	3.27	0 00	0 00	7.02	3.19
317	214	217	-141 01	1.01	0 00	0 00	2.40	1 52
318	211	214	170 00	1.01	0 00	0 00	2.11	1 46
319	215	214	-30 41	0 00	0 00	0 00	0.12	0 07
320	214	213	48 74	0 01	0 00	0 00	0.20	0 04
321	213	212	0 60	0 00	0 00	0 00	0.00	0 00
322	212	211	0 00	0 00	0 00	0 00	0 00	0 00
323	101	205	212.70	1 74	0 00	0 00	1.50	2 40
324	214	210	202 64	1 04	0 00	0 00	2.15	0 94
325	215	208	120 06	0 58	0 00	0 00	0.82	0 60
326	210	209	151 49	0 84	0 00	0 00	0.98	1.22
327	209	208	34 50	0 02	0 00	0 00	0.22	0 07
328	208	204	141 05	0 02	0 00	0 00	1.03	1.23
329	209	207	117 01	0 34	0 00	0 00	0.76	0 69
330	217	206	157 17	0 30	0 00	0 00	1.07	1 32
331	214	204	328 63	0 31	0 00	0 00	2.59	4 20
332	217	205	-10 76	0 04	0 00	0 00	0.32	0 14
333	206	204	102 14	0 47	0 00	0 00	1.17	1 07
334	214	207	10 10	1.00	0 00	0 00	1.03	1 74
335	213	206	64 97	0 08	0 00	0 00	0.73	0 92
336	213	203	-30 48	0 01	0 00	0 00	0.20	0 03
337	212	201	-126 50	0 03	0 00	0 00	0.68	0 31
338	212	201	112 15	0 29	0 00	0 00	0.73	0 38
339	212	201	00 12	0 01	0 00	0 00	0.13	0 03
340	212	200	112 07	0 02	0 00	0 00	0.54	0 24
341	212	204	-144 16	0 07	0 00	0 00	1.05	0 45
342	210	199	142 10	0 31	0 00	0 00	0.74	0 34
343	210	198	72 01	0 17	0 00	0 00	0.46	0 18
344	199	198	117 77	0 14	0 00	0 00	0.76	0 29
345	199	195	0 00	0 00	0 00	0 00	0 00	0 00
346	199	191	14 51	0 11	0 00	0 00	0.20	0 10
347	199	191	44 10	0 22	0 00	0 00	0.73	0 30
348	193	194	43 00	0 14	0 00	0 00	0 49	0 21
349	194	194	121 25	0 27	0 00	0 00	0 77	0 39
350	193	193	95 00	0 20	0 00	0 00	0 61	0 25
351	194	194	246 17	1 13	0 00	0 00	1.87	1 47
352	192	192	-245 09	0 20	0 00	0 00	0 72	0 10
353	194	195	-44 63	0 09	0 00	0 00	1 44	0 20
354	195	196	-44 00	0 03	0 00	0 00	1.20	0 84
355	191	195	42 01	0 19	0 00	0 00	1 68	0 43
356	193	195	18 70	0 09	0 00	0 00	0 10	0 07
357	194	197	-32 35	0 01	0 00	0 00	0 21	0 03
358	198	197	24 72	0 02	0 00	0 00	0 14	0 02
359	197	198	-15 50	0 03	0 00	0 00	0 10	0 01
360	198	199	-40 21	0 04	0 00	0 00	0 26	0 00
361	199	199	-94 00	0 13	0 00	0 00	0 36	0 17
362	199	191	10 06	0 04	0 00	0 00	0 21	0 09
363	191	192	-27 12	0 01	0 00	0 00	0 17	0 02
364	192	192	-72 94	0 15	0 00	0 00	0 79	0 20
365	194	196	-119 69	0 14	0 00	0 00	0 76	0 29
366	194	199	-20 22	0 00	0 00	0 00	1.04	0 00
367	194	191	114 44	0 00	0 00	0 00	1.32	0 04
368	194	192	210 14	0 01	0 00	0 00	1.45	0 08
369	194	190	74 00	0 09	0 00	0 00	0 49	0 24
370	197	196	249 00	0 01	0 00	0 00	0 51	0 09
371	197	196	122 00	0 01	0 00	0 00	1.06	0 03
372	197	201	-453 10	0 19	0 00	0 00	1.74	0 16
373	194	197	-210 14	0 00	0 00	0 00	1 35	0 04
374	194	427	0 00	0 00	0 00	0 00	0 20	0 18
375	217	206	-14 07	0 10	0 00	0 00	0 16	0 01
376	217	204	-93 63	0 02	0 00	0 00	0 08	0 03
377	204	204	-195 29	0 01	0 00	0 00	1 07	0 11
378	215	203	-655 20	0 25	0 00	0 00	1 52	0 41
379	203	203	-746 11	0 26	0 00	0 00	1 62	0 60
380	209	209	-1313 12	0 27	0 00	0 00	2 62	0 89
381	209	208	247 21	0 14	0 00	0 00	2 62	0 89

385	376	362	-16.98	0.01	0.00	0.00	0.22	0.02
387	364	364	-11.34	0.00	0.00	0.00	0.13	0.01
388	375	373	-20.92	0.03	0.00	0.00	0.13	0.05
389	374	369	9.01	0.00	0.00	0.00	0.02	0.00
390	381	376	-24.30	0.03	0.00	0.00	0.16	0.04
391	377	376	7.21	0.00	0.00	0.00	0.09	0.00
392	377	357	37.46	0.28	0.00	0.00	0.41	0.33
393	387	389	129.64	1.03	0.00	0.00	0.46	0.36
394	388	386	148.20	2.00	0.00	0.00	0.49	0.41
395	377	380	8.32	0.01	0.00	0.00	0.10	0.02
396	389	379	-20.64	0.00	0.00	0.00	0.12	0.33
397	383	381	18.30	0.01	0.00	0.00	0.15	0.00
398	381	378	-12.31	0.01	0.00	0.00	0.19	0.38
399	381	374	158.39	0.79	0.00	0.00	0.44	0.16
400	379	383	-74.10	0.18	0.00	0.00	0.49	0.31
401	383	384	-48.89	0.11	0.00	0.00	0.44	0.24
402	381	383	94.11	0.14	0.00	0.00	0.41	0.64
403	378	379	-32.31	0.00	0.00	0.00	0.37	0.25
404	382	381	17.92	0.02	0.00	0.00	0.20	0.00
405	382	375	24.09	0.31	0.00	0.00	0.41	0.31
406	374	373	182.16	0.01	0.00	0.00	0.42	0.19
407	373	397	81.60	0.14	0.00	0.00	0.39	0.08
408	372	371	16.93	0.05	0.00	0.00	0.19	0.08
409	371	368	8.77	0.01	0.00	0.00	0.07	0.01
410	371	370	4.06	0.01	0.00	0.00	0.08	0.01
411	368	363	4.04	0.00	0.00	0.00	0.00	0.00
412	370	364	1.28	0.00	0.00	0.00	0.00	0.00
413	369	405	2.73	0.00	0.00	0.00	0.03	0.00
414	404	401	2.18	0.00	0.00	0.00	0.03	0.00
415	405	399	9.71	0.00	0.00	0.00	0.02	0.00
416	404	369	1.42	0.00	0.00	0.00	0.02	0.00
417	404	375	-7.41	0.00	0.00	0.00	0.04	0.00
418	398	399	-3.06	0.00	0.00	0.00	0.03	0.00
419	397	399	-12.19	0.00	0.00	0.00	0.05	0.00
420	396	371	-0.26	0.00	0.00	0.00	0.05	0.01
421	396	384	18.50	0.04	0.00	0.00	0.21	0.09
422	394	390	7.26	0.01	0.00	0.00	0.20	0.32
423	394	389	6.58	0.01	0.00	0.00	0.06	0.01
424	399	402	1.89	0.00	0.00	0.00	0.02	0.00
425	402	404	1.51	0.00	0.00	0.00	0.02	0.00
426	403	404	1.47	0.00	0.00	0.00	0.03	0.00
427	401	401	1.04	0.00	0.00	0.00	0.01	0.00
428	401	402	1.71	0.00	0.00	0.00	0.02	0.00
429	402	401	-0.03	0.00	0.00	0.00	0.01	0.00
430	402	399	-0.03	0.00	0.00	0.00	0.01	0.00
431	402	399	-0.03	0.00	0.00	0.00	0.01	0.00
432	402	399	-0.03	0.00	0.00	0.00	0.01	0.00
433	402	399	-0.03	0.00	0.00	0.00	0.01	0.00
434	399	399	0.00	0.00	0.00	0.00	0.00	0.00
435	399	394	-12.26	0.02	0.00	0.00	0.13	0.04
436	399	392	14.10	0.01	0.00	0.00	0.09	0.00
437	399	390	-2.10	0.00	0.00	0.00	0.09	0.00
438	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
439	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
440	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
441	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
442	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
443	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
444	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
445	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
446	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
447	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
448	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
449	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
450	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
451	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
452	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
453	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
454	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
455	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
456	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
457	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
458	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
459	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
460	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
461	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
462	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
463	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
464	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
465	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
466	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
467	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
468	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
469	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
470	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
471	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
472	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
473	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
474	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
475	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
476	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
477	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
478	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
479	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
480	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
481	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
482	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
483	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
484	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
485	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
486	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
487	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
488	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
489	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
490	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
491	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
492	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
493	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
494	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
495	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
496	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
497	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
498	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
499	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
500	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
501	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
502	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
503	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
504	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
505	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
506	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
507	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
508	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
509	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
510	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
511	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
512	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
513	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
514	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
515	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
516	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
517	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
518	399	392	-14.10	0.01	0.00	0.00	0.09	0.00
519	399	392	-14.10	0.01	0.00	0.00	0.09	0.00

316	314	312	8.29	0.05	0.00	0.00	0.00	0.00
317	313	315	-2.05	0.05	0.00	0.00	0.00	0.00
318	312	311	-32.82	0.16	0.00	0.00	0.00	0.00
319	311	309	17.92	0.24	0.00	0.00	0.00	0.00
320	311	308	-46.62	0.31	0.00	0.00	0.00	0.00
321	309	307	-4.05	0.27	0.00	0.00	0.00	0.00
322	308	306	-68.11	0.06	0.00	0.00	0.00	0.00
323	308	304	-417.76	0.15	0.00	0.00	0.00	0.00
324	306	304	57.09	0.18	0.00	0.00	0.00	0.00
325	306	305	-64.41	0.25	0.00	0.00	0.00	0.00
326	305	303	322.00	1.00	0.00	0.00	0.00	0.00
327	305	301	-67.72	0.00	0.00	0.00	0.00	0.00
328	305	311	-197.11	0.12	0.00	0.00	0.00	0.00
329	309	314	-275.70	0.74	0.00	0.00	0.00	0.00
330	308	340	361.09	0.13	0.00	0.00	0.00	0.00
331	340	347	61.25	0.02	0.00	0.00	0.00	0.00
332	307	347	-119.09	0.06	0.00	0.00	0.00	0.00
333	312	301	-107.96	0.47	0.00	0.00	0.00	0.00
334	313	312	-119.93	0.82	0.00	0.00	0.00	0.00
335	314	313	-121.00	0.00	0.00	0.00	0.00	0.00
336	317	314	-121.69	0.86	0.00	0.00	0.00	0.00
337	318	317	-126.48	0.61	0.00	0.00	0.00	0.00
338	321	318	-124.77	0.40	0.00	0.00	0.00	0.00
339	322	321	-11.00	0.01	0.00	0.00	0.00	0.00
340	323	322	-11.36	0.01	0.00	0.00	0.00	0.00
341	324	323	-10.92	0.01	0.00	0.00	0.00	0.00
342	323	320	-66.82	0.26	0.00	0.00	0.00	0.00
343	325	319	-110.00	0.19	0.00	0.00	0.00	0.00
344	316	319	128.99	0.60	0.00	0.00	0.00	0.00
345	316	315	-111.74	0.88	0.00	0.00	0.00	0.00
346	315	310	-111.40	0.80	0.00	0.00	0.00	0.00
347	310	309	-125.50	0.82	0.00	0.00	0.00	0.00
348	309	303	-122.14	0.03	0.00	0.00	0.00	0.00
349	302	304	114.46	0.00	0.00	0.00	0.00	0.00
350	304	304	-121.10	0.76	0.00	0.00	0.00	0.00
351	303	302	-120.91	0.17	0.00	0.00	0.00	0.00
352	305	304	-101.64	0.03	0.00	0.00	0.00	0.00
353	304	303	-108.19	0.16	0.00	0.00	0.00	0.00
354	303	302	-105.07	0.00	0.00	0.00	0.00	0.00
355	302	301	11.44	0.01	0.00	0.00	0.00	0.00
356	301	300	61.00	0.04	0.00	0.00	0.00	0.00
357	300	299	-140.10	0.00	0.00	0.00	0.00	0.00
358	299	298	-100.12	0.01	0.00	0.00	0.00	0.00
359	298	297	-93.21	0.01	0.00	0.00	0.00	0.00
360	297	296	-87.20	0.00	0.00	0.00	0.00	0.00
361	296	295	-73.15	0.01	0.00	0.00	0.00	0.00
362	295	294	-146.74	0.03	0.00	0.00	0.00	0.00
363	293	292	-60.16	0.12	0.00	0.00	0.00	0.00
364	292	291	-45.93	0.00	0.00	0.00	0.00	0.00
365	291	290	-232.03	0.49	0.00	0.00	0.00	0.00
366	290	289	-204.84	0.27	0.00	0.00	0.00	0.00
367	289	288	-172.12	0.72	0.00	0.00	0.00	0.00
368	288	287	-112.49	0.24	0.00	0.00	0.00	0.00
369	287	286	135.17	0.24	0.00	0.00	0.00	0.00
370	286	285	-12.10	0.10	0.00	0.00	0.00	0.00
371	285	284	-161.85	0.17	0.00	0.00	0.00	0.00
372	284	283	-0.76	0.22	0.00	0.00	0.00	0.00
373	283	282	-147.10	0.20	0.00	0.00	0.00	0.00
374	282	281	11.42	0.30	0.00	0.00	0.00	0.00
375	281	280	0.76	0.30	0.00	0.00	0.00	0.00
376	280	279	-10.11	0.31	0.00	0.00	0.00	0.00
377	279	278	10.74	0.31	0.00	0.00	0.00	0.00
378	278	277	-17.74	0.06	0.00	0.00	0.00	0.00
379	277	276	-160.42	0.06	0.00	0.00	0.00	0.00
380	276	275	-10.09	0.38	0.00	0.00	0.00	0.00
381	275	274	-24.31	0.05	0.00	0.00	0.00	0.00
382	274	273	-4.02	0.00	0.00	0.00	0.00	0.00
383	273	272	-90.41	0.23	0.00	0.00	0.00	0.00
384	272	271	17.12	0.06	0.00	0.00	0.00	0.00
385	271	270	21.47	0.04	0.00	0.00	0.00	0.00
386	270	269	11.06	0.07	0.00	0.00	0.00	0.00
387	269	268	10.71	0.02	0.00	0.00	0.00	0.00
388	268	267	-9.95	0.02	0.00	0.00	0.00	0.00
389	267	266	-3.25	0.00	0.00	0.00	0.00	0.00
390	266	265	-9.74	0.01	0.00	0.00	0.00	0.00
391	265	264	-11.44	0.01	0.00	0.00	0.00	0.00
392	264	263	-1.94	0.00	0.00	0.00	0.00	0.00
393	263	262	-9.43	0.00	0.00	0.00	0.00	0.00
394	262	261	10.14	0.00	0.00	0.00	0.00	0.00
395	261	260	10.42	0.01	0.00	0.00	0.00	0.00
396	260	259	-10.25	0.05	0.00	0.00	0.00	0.00
397-PC	259	258	-1101.01	0.38	0.00	0.00	0.00	0.00
398	258	257	142.17	0.38	0.00	0.00	0.00	0.00
399-PM	257	256	202.26	0.01	0.00	0.00	0.00	0.00
400-NK	256	255						
401	255	254	-175.22	0.33	0.00	0.00	0.00	0.00
402	254	253	-175.22	0.33	0.00	0.00	0.00	0.00
403	253	252	-207.10	0.03	0.00	0.00	0.00	0.00
404	252	251	-87.70	0.03	0.00	0.00	0.00	0.00
405	251	250	58.73	0.13	0.00	0.00	0.00	0.00
406	250	249	-106.41	0.40	0.00	0.00	0.00	0.00
407	249	248	-106.14	0.00	0.00	0.00	0.00	0.00
408	248	247	-442.40	0.10	0.00	0.00	0.00	0.00
409-DR	247	246						
410	246	245	121.40	0.17	0.00	0.00	0.00	0.00
411	245	244	-222.40	0.40	0.00	0.00	0.00	0.00

615	343	344	-141.48	1.48	0.00	0.00	1.00	1.00
616-KK	344	345						
617	344	346	1235.48	6.24	0.00	0.00	1.00	1.00
618	345	346	1247.00	13.52	0.00	0.00	1.00	1.00
619	346	346	-149.04	1.00	0.00	0.00	1.00	1.00
620	346	347	57.03	0.00	0.00	0.00	1.00	1.00
621	347	348	-201.42	4.92	0.00	0.00	1.00	1.00
622	347	348	57.03	0.00	0.00	0.00	1.00	1.00
623	348	349	-10.37	0.00	0.00	0.00	1.00	1.00
624	349	350	-455.47	2.07	0.00	0.00	1.00	1.00
625	349	351	-344.62	1.00	0.00	0.00	1.00	1.00
626	351	350	100.34	0.10	0.00	0.00	1.00	1.00
627	351	352	-130.09	0.10	0.00	0.00	1.00	1.00
628	352	353	100.34	0.10	0.00	0.00	1.00	1.00
629	353	354	90.10	0.00	0.00	0.00	1.00	1.00
630	354	354	-332.47	1.17	0.00	0.00	1.00	1.00
631	354	355	-135.07	0.46	0.00	0.00	1.00	1.00
632	355	357	-201.47	0.76	0.00	0.00	1.00	1.00
633	357	358	-444.66	2.10	0.00	0.00	1.00	1.00
634	358	357	-344.66	0.40	0.00	0.00	1.00	1.00
635	359	360	410.77	1.24	0.00	0.00	1.00	1.00
636	360	351	600.51	1.74	0.00	0.00	1.00	1.00
637	360	361	-366.74	1.07	0.00	0.00	1.00	1.00
638	361	362	-347.34	0.72	0.00	0.00	1.00	1.00
639-KK	361	365						
640	369	362	-600.57	1.04	0.00	0.00	1.00	1.00
641	369	368	-438.06	0.00	0.00	0.00	1.00	1.00
642	368	366	-1226.40	6.07	0.00	0.00	1.00	1.00
643-F3	368	366	786.42	3.07	0.00	0.00	1.00	1.00
644-F3	368	366	-935.30	0.20	0.00	0.00	1.00	1.00
645	368	362	955.90	4.00	0.00	0.00	1.00	1.00
646	368	365	0.70	0.00	0.00	0.00	1.00	1.00
647-KV	368	365	159.24	0.00	0.00	0.00	1.00	1.00
648	368	364	-159.24	0.00	0.00	0.00	1.00	1.00
649	368	366	159.24	0.00	0.00	0.00	1.00	1.00
650	368	366	127.22	0.00	0.00	0.00	1.00	1.00
651	368	367	21.94	0.00	0.00	0.00	1.00	1.00
652	367	368	21.94	0.00	0.00	0.00	1.00	1.00
653	368	368	-25.41	0.00	0.00	0.00	1.00	1.00
654	368	368	12.92	0.00	0.00	0.00	1.00	1.00
655	368	368	-11.76	0.00	0.00	0.00	1.00	1.00
656	368	368	12.92	0.00	0.00	0.00	1.00	1.00
657	368	368	-6.41	0.00	0.00	0.00	1.00	1.00
658	368	368	0.72	0.00	0.00	0.00	1.00	1.00
659	368	368	-4.22	0.00	0.00	0.00	1.00	1.00
660	368	368	1.00	0.00	0.00	0.00	1.00	1.00
661	368	368	-18.73	0.00	0.00	0.00	1.00	1.00
662	368	368	86.56	0.00	0.00	0.00	1.00	1.00
663	368	368	-69.05	0.00	0.00	0.00	1.00	1.00
664	368	368	5.46	0.00	0.00	0.00	1.00	1.00
665	368	368	-7.46	0.00	0.00	0.00	1.00	1.00
666	368	368	-70.01	0.00	0.00	0.00	1.00	1.00
667	368	368	-104.95	0.00	0.00	0.00	1.00	1.00
668	368	368	-176.59	0.00	0.00	0.00	1.00	1.00
669-F3	368	368	-193.94	0.00	0.00	0.00	1.00	1.00
670	368	368	0.00	0.00	0.00	0.00	1.00	1.00
671-F3	368	368	-1471.00	0.00	0.00	0.00	1.00	1.00
PUMP IN LINE 817 IS OPERATING OUT OF RANGE								
672-F3	368	368	1090.45	0.00	0.00	0.00	1.00	1.00
673-KKPU	368	368						
674-F3	368	368	-648.57	0.00	0.00	0.00	1.00	1.00
675-F3	368	368	-945.08	0.00	0.00	0.00	1.00	1.00
676	368	368	1245.40	0.00	0.00	0.00	1.00	1.00
677-KKPU	368	368						
PUMP IN LINE 822 IS OPERATING OUT OF RANGE								
678-F3	368	368	1245.40	0.00	0.00	0.00	1.00	1.00
679-KKPU	368	368						
680-KKPU	368	368						
681-F3	368	368	1.00	0.00	0.00	0.00	1.00	1.00
682-KKPU	368	368						
683-KKPU	368	368						
684-KKPU	368	368						
685-KKPU	368	368						
686-KKPU	368	368						
687-KKPU	368	368						
688-KKPU	368	368						
689-KKPU	368	368						
690-KKPU	368	368						
691	368	368	0.00	0.00	0.00	0.00	1.00	1.00
692	368	368	-677.01	0.00	0.00	0.00	1.00	1.00
693-F3	368	368	-846.00	0.00	0.00	0.00	1.00	1.00
694-KK	368	368						
695	368	368	-130.45	0.00	0.00	0.00	1.00	1.00
696-KK	368	368						
697-F3	368	368	-142.87	0.00	0.00	0.00	1.00	1.00

FUNCTION OF HORN RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL ELEVATION (ft)	HYDRAULIC GRADE (ft)	JUNCTION ELEVATION (ft)	PERCENTAGE	JUNCTION PRESSURE (psi)
1		1.00	1000.00	1000.00	0.00	10.00
2		1.00	1000.00	1000.00	0.00	10.00
3		1.00	1000.00	1000.00	0.00	10.00
4		1.00	1000.00	1000.00	0.00	10.00
5		1.00	1000.00	1000.00	0.00	10.00
6		1.00	1000.00	1000.00	0.00	10.00
7		1.00	1000.00	1000.00	0.00	10.00
8		1.00	1000.00	1000.00	0.00	10.00

1	4.00	3991 91	3991 01	82 91	35 93
2	3.60	3221 90	3991 02	82 92	35 96
3	3.40	3991 91	3991 03	82 93	35 99
4	2.40	3991 92	3991 04	82 94	35 12
5	2.30	3991 93	3991 05	82 95	35 15
6	2.60	3991 94	3991 06	82 96	35 18
7	2.00	3991 95	3991 07	82 97	35 21
8	2.00	3991 96	3991 08	82 98	35 24
9	2.00	3991 97	3991 09	82 99	35 27
10	2.00	3991 98	3991 10	82 00	35 30
11	2.00	3991 99	3991 11	82 01	35 33
12	2.00	3991 00	3991 12	82 02	35 36
13	2.00	3991 01	3991 13	82 03	35 39
14	2.00	3991 02	3991 14	82 04	35 42
15	2.00	3991 03	3991 15	82 05	35 45
16	2.00	3991 04	3991 16	82 06	35 48
17	2.00	3991 05	3991 17	82 07	35 51
18	2.00	3991 06	3991 18	82 08	35 54
19	2.00	3991 07	3991 19	82 09	35 57
20	2.00	3991 08	3991 20	82 10	35 60
21	2.00	3991 09	3991 21	82 11	35 63
22	2.00	3991 10	3991 22	82 12	35 66
23	2.00	3991 11	3991 23	82 13	35 69
24	2.00	3991 12	3991 24	82 14	35 72
25	2.00	3991 13	3991 25	82 15	35 75
26	2.00	3991 14	3991 26	82 16	35 78
27	2.00	3991 15	3991 27	82 17	35 81
28	2.00	3991 16	3991 28	82 18	35 84
29	2.00	3991 17	3991 29	82 19	35 87
30	2.00	3991 18	3991 30	82 20	35 90
31	2.00	3991 19	3991 31	82 21	35 93
32	2.00	3991 20	3991 32	82 22	35 96
33	2.00	3991 21	3991 33	82 23	35 99
34	2.00	3991 22	3991 34	82 24	36 02
35	2.00	3991 23	3991 35	82 25	36 05
36	2.00	3991 24	3991 36	82 26	36 08
37	2.00	3991 25	3991 37	82 27	36 11
38	2.00	3991 26	3991 38	82 28	36 14
39	2.00	3991 27	3991 39	82 29	36 17
40	2.00	3991 28	3991 40	82 30	36 20
41	2.00	3991 29	3991 41	82 31	36 23
42	2.00	3991 30	3991 42	82 32	36 26
43	2.00	3991 31	3991 43	82 33	36 29
44	2.00	3991 32	3991 44	82 34	36 32
45	2.00	3991 33	3991 45	82 35	36 35
46	2.00	3991 34	3991 46	82 36	36 38
47	2.00	3991 35	3991 47	82 37	36 41
48	2.00	3991 36	3991 48	82 38	36 44
49	2.00	3991 37	3991 49	82 39	36 47
50	2.00	3991 38	3991 50	82 40	36 50
51	2.00	3991 39	3991 51	82 41	36 53
52	2.00	3991 40	3991 52	82 42	36 56
53	2.00	3991 41	3991 53	82 43	36 59
54	2.00	3991 42	3991 54	82 44	37 02
55	2.00	3991 43	3991 55	82 45	37 05
56	2.00	3991 44	3991 56	82 46	37 08
57	2.00	3991 45	3991 57	82 47	37 11
58	2.00	3991 46	3991 58	82 48	37 14
59	2.00	3991 47	3991 59	82 49	37 17
60	2.00	3991 48	3991 60	82 50	37 20
61	2.00	3991 49	3991 61	82 51	37 23
62	2.00	3991 50	3991 62	82 52	37 26
63	2.00	3991 51	3991 63	82 53	37 29

111	1 21	3003 39	3077 80	106 30	46 68
111	2 01	3003 39	3077 80	105 36	46 67
112	31 21	3003 43	3078 80	105 40	46 67
113	2 37	3003 33	3000 80	103 37	46 77
114	0 02	3003 33	3000 80	103 37	46 77
115	7 01	3003 34	3000 80	103 34	46 79
116	1 01	3003 43	3001 80	102 43	46 79
117	6 01	3004 43	3078 80	100 43	47 27
118	6 01	3003 41	3003 80	100 41	47 31
119	0 01	3003 34	3003 80	100 34	47 43
120	0 01	3004 47	3003 80	100 47	47 43
121	2 37	3004 33	3003 80	100 37	48 04
122	2 4	3004 42	3004 80	101 42	48 04
123	6 04	3004 40	3004 80	101 40	48 06
124	6 03	3004 40	3004 80	101 40	48 06
125	41 74	3005 20	3005 80	101 74	48 10
126	1 30	3005 47	3006 80	101 30	48 32
127	10 00	3006 06	3007 80	101 06	48 36
128	1 00	3006 30	3007 80	101 00	48 36
129	1 00	3006 30	3007 80	101 00	48 36
130	1 00	3006 30	3007 80	101 00	48 36
131	1 00	3006 30	3007 80	101 00	48 36
132	1 00	3006 30	3007 80	101 00	48 36
133	1 00	3006 30	3007 80	101 00	48 36
134	1 00	3006 30	3007 80	101 00	48 36
135	1 00	3006 30	3007 80	101 00	48 36
136	1 00	3006 30	3007 80	101 00	48 36
137	1 00	3006 30	3007 80	101 00	48 36
138	1 00	3006 30	3007 80	101 00	48 36
139	1 00	3006 30	3007 80	101 00	48 36
140	1 00	3006 30	3007 80	101 00	48 36
141	1 00	3006 30	3007 80	101 00	48 36
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144	1 00	3006 30	3007 80	101 00	48 36
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156	1 00	3006 30	3007 80	101 00	48 36
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158	1 00	3006 30	3007 80	101 00	48 36
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163	1 00	3006 30	3007 80	101 00	48 36
164	1 00	3006 30	3007 80	101 00	48 36
165	1 00	3006 30	3007 80	101 00	48 36
166	1 00	3006 30	3007 80	101 00	48 36
167	1 00	3006 30	3007 80	101 00	48 36
168	1 00	3006 30	3007 80	101 00	48 36
169	1 00	3006 30	3007 80	101 00	48 36
170	1 00	3006 30	3007 80	101 00	48 36

206	1 20	3294 26	3276 62	364 38	45 23
207	1 20	3295 26	3277 62	365 38	45 23
208	2 00	3296 07	3278 62	366 38	45 23
209	2 00	3297 07	3279 62	367 38	45 23
210	2 00	3298 07	3280 62	368 38	45 23
211	2 00	3299 07	3281 62	369 38	45 23
212	2 00	3300 07	3282 62	370 38	45 23
213	2 00	3301 07	3283 62	371 38	45 23
214	2 00	3302 07	3284 62	372 38	45 23
215	2 00	3303 07	3285 62	373 38	45 23
216	2 00	3304 07	3286 62	374 38	45 23
217	2 00	3305 07	3287 62	375 38	45 23
218	2 00	3306 07	3288 62	376 38	45 23
219	2 00	3307 07	3289 62	377 38	45 23
220	2 00	3308 07	3290 62	378 38	45 23
221	2 00	3309 07	3291 62	379 38	45 23
222	2 00	3310 07	3292 62	380 38	45 23
223	2 00	3311 07	3293 62	381 38	45 23
224	2 00	3312 07	3294 62	382 38	45 23
225	2 00	3313 07	3295 62	383 38	45 23
226	2 00	3314 07	3296 62	384 38	45 23
227	2 00	3315 07	3297 62	385 38	45 23
228	2 00	3316 07	3298 62	386 38	45 23
229	2 00	3317 07	3299 62	387 38	45 23
230	2 00	3318 07	3300 62	388 38	45 23
231	2 00	3319 07	3301 62	389 38	45 23
232	2 00	3320 07	3302 62	390 38	45 23
233	2 00	3321 07	3303 62	391 38	45 23
234	2 00	3322 07	3304 62	392 38	45 23
235	2 00	3323 07	3305 62	393 38	45 23
236	2 00	3324 07	3306 62	394 38	45 23
237	2 00	3325 07	3307 62	395 38	45 23
238	2 00	3326 07	3308 62	396 38	45 23
239	2 00	3327 07	3309 62	397 38	45 23
240	2 00	3328 07	3310 62	398 38	45 23
241	2 00	3329 07	3311 62	399 38	45 23
242	2 00	3330 07	3312 62	400 38	45 23
243	2 00	3331 07	3313 62	401 38	45 23
244	2 00	3332 07	3314 62	402 38	45 23
245	2 00	3333 07	3315 62	403 38	45 23
246	2 00	3334 07	3316 62	404 38	45 23
247	2 00	3335 07	3317 62	405 38	45 23
248	2 00	3336 07	3318 62	406 38	45 23
249	2 00	3337 07	3319 62	407 38	45 23
250	2 00	3338 07	3320 62	408 38	45 23
251	2 00	3339 07	3321 62	409 38	45 23
252	2 00	3340 07	3322 62	410 38	45 23
253	2 00	3341 07	3323 62	411 38	45 23
254	2 00	3342 07	3324 62	412 38	45 23
255	2 00	3343 07	3325 62	413 38	45 23
256	2 00	3344 07	3326 62	414 38	45 23
257	2 00	3345 07	3327 62	415 38	45 23
258	2 00	3346 07	3328 62	416 38	45 23
259	2 00	3347 07	3329 62	417 38	45 23
260	2 00	3348 07	3330 62	418 38	45 23
261	2 00	3349 07	3331 62	419 38	45 23
262	2 00	3350 07	3332 62	420 38	45 23
263	2 00	3351 07	3333 62	421 38	45 23
264	2 00	3352 07	3334 62	422 38	45 23
265	2 00	3353 07	3335 62	423 38	45 23
266	2 00	3354 07	3336 62	424 38	45 23

308	0.00	3000 36	3000 00	00.36	36.02
309	0.36	3000 84	3000 00	00.84	36.38
310	0.70	3000 92	3000 00	00.92	36.74
311	0.30	3001.60	3000.00	01.60	37.04
312	10.64	3000 43	3000.00	00.43	37.40
313	0.00	3000 92	3000.00	00.92	37.76
314	0.00	3000 32	3000.00	00.32	38.08
315	0.00	3000 32	3000.00	00.32	38.44
316	0.00	3000 77	3000.00	00.77	38.80
317	0.00	3000 76	3000.00	00.76	39.16
318	0.40	3000 19	3000.00	00.19	39.52
319	0.00	3000 18	3000.00	00.18	39.88
320	0.12	3000 88	3000.00	00.88	40.24
321	0.00	3000 70	3000.00	00.70	40.60
322	17.48	3000 70	3000.00	00.70	40.96
323	12.16	3000 80	3000.00	00.80	41.32
324	26.32	3000 76	3000.00	00.76	41.68
325	25.84	3000 73	3000.00	00.73	42.04
326	0.00	3000 36	3000.00	00.36	42.40
327	12.16	3000 36	3000.00	00.36	42.76
328	0.00	3000 17	3000.00	00.17	43.12
329	19.20	3000 13	3000.00	00.13	43.48
330	18.32	3000 13	3000.00	00.13	43.84
331	26.32	3000 13	3000.00	00.13	44.20
332	0.00	3000 82	3000.00	00.82	44.56
333	0.00	3000 03	3000.00	00.03	44.92
334	0.00	3000 80	3000.00	00.80	45.28
335	0.00	3000 04	3000.00	00.04	45.64
336	0.00	3000 04	3000.00	00.04	46.00
337	76.30	3000 01	3000.00	00.01	46.36
338	0.00	3000 36	3000.00	00.36	46.72
339	0.00	3000 16	3000.00	00.16	47.08
340	0.00	3000 00	3000.00	00.00	47.44
341	0.00	3000 84	3000.00	00.84	47.80
342	0.00	3000 77	3000.00	00.77	48.16
343	0.00	3000 74	3000.00	00.74	48.52
344	0.00	3000 17	3000.00	00.17	48.88
345	7.00	3000 60	3000.00	00.60	49.24
346	3.00	3000 70	3000.00	00.70	49.60
347	0.00	3000 67	3000.00	00.67	49.96
348	11.10	3000 83	3000.00	00.83	50.32
349	01.04	3000.63	3000.00	00.63	50.68
350	116.70	3000.60	3000.00	00.60	51.04
351	3.00	3000 31	3000.00	00.31	51.40
352	0.00	3000 64	3000.00	00.64	51.76
353	7.40	3000 97	3000.00	00.97	52.12
354	03.30	3000 07	3000.00	00.07	52.48
355	0.00	3000 15	3000.00	00.15	52.84
356	1.00	3000 99	3000.00	00.99	53.20
357	0.00	3000 00	3000.00	00.00	53.56
358	0.00	3000 00	3000.00	00.00	53.92
359	0.00	3000 00	3000.00	00.00	54.28
360	0.00	3000 00	3000.00	00.00	54.64
361	0.00	3000 00	3000.00	00.00	55.00
362	0.00	3000 00	3000.00	00.00	55.36
363	0.00	3000 00	3000.00	00.00	55.72
364	0.00	3000 00	3000.00	00.00	56.08
365	0.00	3000 00	3000.00	00.00	56.44
366	0.00	3000 00	3000.00	00.00	56.80
367	0.00	3000 00	3000.00	00.00	57.16
368	0.00	3000 00	3000.00	00.00	57.52
369	0.00	3000 00	3000.00	00.00	57.88
370	0.00	3000 00	3000.00	00.00	58.24
371	0.00	3000 00	3000.00	00.00	58.60
372	0.00	3000 00	3000.00	00.00	58.96
373	0.00	3000 00	3000.00	00.00	59.32
374	0.00	3000 00	3000.00	00.00	59.68
375	0.00	3000 00	3000.00	00.00	60.04
376	0.00	3000 00	3000.00	00.00	60.40
377	0.00	3000 00	3000.00	00.00	60.76
378	0.00	3000 00	3000.00	00.00	61.12
379	0.00	3000 00	3000.00	00.00	61.48
380	0.00	3000 00	3000.00	00.00	61.84
381	0.00	3000 00	3000.00	00.00	62.20
382	0.00	3000 00	3000.00	00.00	62.56
383	0.00	3000 00	3000.00	00.00	62.92
384	0.00	3000 00	3000.00	00.00	63.28
385	0.00	3000 00	3000.00	00.00	63.64
386	0.00	3000 00	3000.00	00.00	64.00
387	0.00	3000 00	3000.00	00.00	64.36
388	0.00	3000 00	3000.00	00.00	64.72
389	0.00	3000 00	3000.00	00.00	65.08
390	0.00	3000 00	3000.00	00.00	65.44
391	0.00	3000 00	3000.00	00.00	65.80
392	0.00	3000 00	3000.00	00.00	66.16
393	0.00	3000 00	3000.00	00.00	66.52
394	0.00	3000 00	3000.00	00.00	66.88
395	0.00	3000 00	3000.00	00.00	67.24
396	0.00	3000 00	3000.00	00.00	67.60
397	0.00	3000 00	3000.00	00.00	67.96
398	0.00	3000 00	3000.00	00.00	68.32
399	0.00	3000 00	3000.00	00.00	68.68
400	0.00	3000 00	3000.00	00.00	69.04
401	0.00	3000 00	3000.00	00.00	69.40
402	0.00	3000 00	3000.00	00.00	69.76
403	0.00	3000 00	3000.00	00.00	70.12
404	0.00	3000 00	3000.00	00.00	70.48
405	0.00	3000 00	3000.00	00.00	70.84
406	0.00	3000 00	3000.00	00.00	71.20
407	0.00	3000 00	3000.00	00.00	71.56
408	0.00	3000 00	3000.00	00.00	71.92
409	0.00	3000 00	3000.00	00.00	72.28
410	0.00	3000 00	3000.00	00.00	72.64
411	0.00	3000 00	3000.00	00.00	73.00
412	0.00	3000 00	3000.00	00.00	73.36
413	0.00	3000 00	3000.00	00.00	73.72
414	0.00	3000 00	3000.00	00.00	74.08
415	0.00	3000 00	3000.00	00.00	74.44
416	0.00	3000 00	3000.00	00.00	74.80
417	0.00	3000 00	3000.00	00.00	75.16
418	0.00	3000 00	3000.00	00.00	75.52
419	0.00	3000 00	3000.00	00.00	75.88
420	0.00	3000 00	3000.00	00.00	76.24
421	0.00	3000 00	3000.00	00.00	76.60
422	0.00	3000 00	3000.00	00.00	76.96
423	0.00	3000 00	3000.00	00.00	77.32
424	0.00	3000 00	3000.00	00.00	77.68
425	0.00	3000 00	3000.00	00.00	78.04
426	0.00	3000 00	3000.00	00.00	78.40
427	0.00	3000 00	3000.00	00.00	78.76
428	0.00	3000 00	3000.00	00.00	79.12
429	0.00	3000 00	3000.00	00.00	79.48
430	0.00	3000 00	3000.00	00.00	79.84
431	0.00	3000 00	3000.00	00.00	80.20
432	0.00	3000 00	3000.00	00.00	80.56
433	0.00	3000 00	3000.00	00.00	80.92
434	0.00	3000 00	3000.00	00.00	81.28
435	0.00	3000 00	3000.00	00.00	81.64
436	0.00	3000 00	3000.00	00.00	82.00
437	0.00	3000 00	3000.00	00.00	82.36
438	0.00	3000 00	3000.00	00.00	82.72
439	0.00	3000 00	3000.00	00.00	83.08
440	0.00	3000 00	3000.00	00.00	83.44
441	0.00	3000 00	3000.00	00.00	83.80
442	0.00	3000 00	3000.00	00.00	84.16
443	0.00	3000 00	3000.00	00.00	84.52
444	0.00	3000 00	3000.00	00.00	84.88
445	0.00	3000 00	3000.00	00.00	85.24
446	0.00	3000 00	3000.00	00.00	85.60
447	0.00	3000 00	3000.00	00.00	85.96
448	0.00	3000 00	3000.00	00.00	86.32
449	0.00	3000 00	3000.00	00.00	86.68
450	0.00	3000 00	3000.00	00.00	87.04
451	0.00	3000 00	3000.00	00.00	87.40
452	0.00	3000 00	3000.00	00.00	87.76
453	0.00	3000 00	3000.00	00.00	88.12
454	0.00	3000 00	3000.00	00.00	88.48
455	0.00	3000 00	3000.00	00.00	88.84
456	0.00	3000 00	3000.00	00.00	89.20
457	0.00	3000 00	3000.00	00.00	89.56
458	0.00	3000 00	3000.00	00.00	89.92
459	0.00	3000 00	3000.00	00.00	90.28
460	0.00	3000 00	3000.00	00.00	90.64
461	0.00	3000 00	3000.00	00.00	91.00
462	0.00	3000 00	3000.00	00.00	91.36
463	0.00	3000 00	3000.00	00.00	91.72
464	0.00	3000 00	3000.00	00.00	92.08
465	0.00	3000 00	3000.00	00.00	92.44
466	0.00	3000 00	3000.00	00.00	92.80
467	0.00	3000 00	3000.00	00.00	93.16
468	0.00	3000 00	3000.00	00.00	93.52
469	0.00	3000 00	3000.00	00.00	93.88
470	0.00	3000 00	3000.00	00.00	94.24
471	0.00	3000 00	3000.00	00.00	94.60
472	0.00	3000 00	3000.00	00.00	94.96
473	0.00	3000 00	3000.00	00.00	95.32
474	0.00	3000 00	3000.00	00.00	95.68
475	0.00	3000 00	3000.00	00.00	96.04
476	0.00	3000 00	3000.00	00.00	96.40
477	0.00	3000 00	3000.00	00.00	96.76
478	0.00	3000 00	3000.00	00.00	97.12
479	0.00	3000 00	3000.00	00.00	97.48
480	0.00	3000 00	3000.00	00.00	97.84
481	0.00	3000 00	3000.00	00.00	98.20
482	0.00	3000 00	3000.00	00.00	98.56
483	0.00	3000 00	3000.00	00.00	98.92
484	0.00	3000 00	3000.00	00.00	99.28
485	0.00	3000 00	3000.00	00.00	99.64
486	0.00	3000 00	3000.00	00.00	100.00

VARIANTS AND MINIMUM VALUES

SECTION NUMBER	MAXIMUM PRESSURE (PSI)	SECTION NUMBER	MINIMUM PRESSURE (PSI)
334	79.88	435	1.02
344	77.20	371	4.89
353	71.86	338	1.03
310	71.84	700	4.28
329	71.66	81	1.17

DATE MONTH	MAXIMUM HOURS PER DAY	DATE MONTH	MINIMUM HOURS PER DAY
1st	8 30	12th	8 30
1st	6 30	11th	8 00
6th	3 42	7th	3 30
10th	2 15	31st	8 30
4th	1 01	5th	8 30

VALVE POSITION	CONTROLLED VALVE	VALVE STATUS	UPSTREAM HEAD	DOWNSTREAM HEAD	THROUGH FLOW	
LARGE TYPE	WIDE PIPE	SETTING (ft or gpm)	(ft)	(ft)	(gpm)	
N ₂ P-V-3	214	441 45	THROTTLED	67.9 16	42.6 40	189.34

1. INFLOW INTO THE SYSTEM FROM FIXED SPACE NODES
2. OUTFLOW FROM THE SYSTEM INTO FIXED SPACE NODES

HT	SYSTEM	INFLOW	:	12351.42
AT	SYSTEM	OUTFLOW	:	.000.00
HT	SYSTEM	DIVIDANT	:	10572.87

CHANGEN FOR NEXT SIMULAT: 01

PRINT TYPE = 1 • GCF • 1.00:

STATUS CONC.	EX -CLOSED PIPE	FC -FIRST BRASH HOLE	SI -SILVER LINE
	CV -CHECK VALVE	SI -STOP ATTING VALVE	

PIPE NUMBER	BORE DI	NO. OF	LENGTH (FT.)	DIAMETER (IN.)	APPROX. SEA COND.	WINDY LOSS (CUB.)	PER. WIND (IN.)
01-1000	12	1	100	20	12	0	0
THE NAME OF THE PIPE NUMBER	12	1	100	20	12	0	0

610-MXP	220	519	100.0	20	125.00	0.00	0.00
THE PUMP IDENTIFYING NUMBER (ID)	0						
615-MXP	226	519	100.0	20.1	125.00	0.00	0.01
THE PUMP IDENTIFYING NUMBER (ID)	0						
620-MXP	234	519	100.0	20.2	125.00	0.00	0.02
THE PUMP IDENTIFYING NUMBER (ID)	0						
625-MXP	220	521	70.0	10.2	101.00	0.00	0.01
THE PUMP IDENTIFYING NUMBER (ID)	0						
630-MXP	220	521	70.0	10.2	101.00	0.00	0.01
THE PUMP IDENTIFYING NUMBER (ID)	0						
635-MXP	222	524	70.0	10.0	121.00	0.00	0.01
THE PUMP IDENTIFYING NUMBER (ID)	0						
640-MXP	223	524	70.0	10.0	125.00	0.00	0.01
THE PUMP IDENTIFYING NUMBER (ID)	0						
645-MXP	221	504	70.0	10.0	131.00	0.00	0.01
THE PUMP IDENTIFYING NUMBER (ID)	0						
650-MXP	225	504	70.0	10.0	131.00	0.00	0.01
THE PUMP IDENTIFYING NUMBER (ID)	0						
655-MX	201	503	100.0	10.0	101.00	0.00	0.01

 SIMULATION RESULTS

THE RESULTS ARE OBTAINED AFTER 6 TRIALS WITH AN ACCURACY = 0.1033

SIMULATION DESCRIPTION LABEL
 HOURS OF 10.00 TO 10.30.30

PIPELINE RESULTS

STATION CODE	IN - CLOSED PIPE		IN - PIERCE GLASS NODE		IN - PUMP LINE		LINE	EL/
	CODE	NO	CODE	NO	CODE	NO		
STATION	CODE	NO	CODE	NO	CODE	NO	VELO	1000
STATION	CODE	NO	CODE	NO	CODE	NO	(FT/SEC)	(FT/SEC)
1	1	1	10.40	0.23	0.00	0.00	0.00	0.00
2	2	1	20.40	0.23	0.00	0.00	0.00	0.00
3	3	1	30.40	0.23	0.00	0.00	0.00	0.00
4	4	1	40.40	0.23	0.00	0.00	0.00	0.00
5	5	1	50.40	0.23	0.00	0.00	0.00	0.00
6	6	1	60.40	0.23	0.00	0.00	0.00	0.00
7	7	1	70.40	0.23	0.00	0.00	0.00	0.00
8	8	1	80.40	0.23	0.00	0.00	0.00	0.00
9	9	1	90.40	0.23	0.00	0.00	0.00	0.00
10	10	1	100.40	0.23	0.00	0.00	0.00	0.00
11	11	1	110.40	0.23	0.00	0.00	0.00	0.00
12	12	1	120.40	0.23	0.00	0.00	0.00	0.00
13	13	1	130.40	0.23	0.00	0.00	0.00	0.00
14	14	1	140.40	0.23	0.00	0.00	0.00	0.00
15	15	1	150.40	0.23	0.00	0.00	0.00	0.00
16	16	1	160.40	0.23	0.00	0.00	0.00	0.00
17	17	1	170.40	0.23	0.00	0.00	0.00	0.00
18	18	1	180.40	0.23	0.00	0.00	0.00	0.00
19	19	1	190.40	0.23	0.00	0.00	0.00	0.00
20	20	1	200.40	0.23	0.00	0.00	0.00	0.00
21	21	1	210.40	0.23	0.00	0.00	0.00	0.00
22	22	1	220.40	0.23	0.00	0.00	0.00	0.00
23	23	1	230.40	0.23	0.00	0.00	0.00	0.00
24	24	1	240.40	0.23	0.00	0.00	0.00	0.00
25	25	1	250.40	0.23	0.00	0.00	0.00	0.00
26	26	1	260.40	0.23	0.00	0.00	0.00	0.00
27	27	1	270.40	0.23	0.00	0.00	0.00	0.00
28	28	1	280.40	0.23	0.00	0.00	0.00	0.00
29	29	1	290.40	0.23	0.00	0.00	0.00	0.00
30	30	1	300.40	0.23	0.00	0.00	0.00	0.00
31	31	1	310.40	0.23	0.00	0.00	0.00	0.00
32	32	1	320.40	0.23	0.00	0.00	0.00	0.00
33	33	1	330.40	0.23	0.00	0.00	0.00	0.00
34	34	1	340.40	0.23	0.00	0.00	0.00	0.00
35	35	1	350.40	0.23	0.00	0.00	0.00	0.00
36	36	1	360.40	0.23	0.00	0.00	0.00	0.00
37	37	1	370.40	0.23	0.00	0.00	0.00	0.00
38	38	1	380.40	0.23	0.00	0.00	0.00	0.00
39	39	1	390.40	0.23	0.00	0.00	0.00	0.00
40	40	1	400.40	0.23	0.00	0.00	0.00	0.00
41	41	1	410.40	0.23	0.00	0.00	0.00	0.00
42	42	1	420.40	0.23	0.00	0.00	0.00	0.00
43	43	1	430.40	0.23	0.00	0.00	0.00	0.00
44	44	1	440.40	0.23	0.00	0.00	0.00	0.00
45	45	1	450.40	0.23	0.00	0.00	0.00	0.00
46	46	1	460.40	0.23	0.00	0.00	0.00	0.00
47	47	1	470.40	0.23	0.00	0.00	0.00	0.00
48	48	1	480.40	0.23	0.00	0.00	0.00	0.00
49	49	1	490.40	0.23	0.00	0.00	0.00	0.00
50	50	1	500.40	0.23	0.00	0.00	0.00	0.00

44	29	34	17 17	1.68	0.00	0.00	1.14	1.93
45	26	35	182 09	9.09	0.00	0.00	1.74	2.43
46	25	34	181 01	9.20	0.00	0.00	1.14	1.98
47	24	23	191 13	9.12	0.00	0.00	1.41	2.14
48	22	29	1 07	0.03	0.00	0.00	0.00	0.01
49	27	21	1 47	0.02	0.00	0.00	0.00	0.02
50	22	21	-13 20	3.02	0.00	0.00	0.17	0.07
51	22	23	-23.41	0.22	0.00	0.00	0.16	0.01
52	23	47	72.17	0.23	0.00	0.00	0.30	0.09
53	23	41	-14.05	0.23	0.00	0.00	0.17	0.02
54	41	24	-94.67	0.29	0.00	0.00	0.40	0.21
55	31	39	2472 04	1.67	0.00	0.00	2.99	1.34
56	40	41	23 71	0.21	0.00	0.00	0.16	0.07
57	46	42	-53.51	3.22	0.00	0.00	0.23	1.09
58	42	43	12 26	3.02	0.00	0.00	0.14	1.02
59	22	43	23 70	0.23	0.00	0.00	0.26	0.07
60	44	43	-21.03	0.15	0.00	0.00	0.35	1.24
61	44	45	-24.11	0.16	0.00	0.00	0.27	1.15
62	40	40	-53.05	0.29	0.00	0.00	0.36	0.09
63	40	38	-164.30	0.79	0.00	0.00	1.03	1.69
64	39	26	274 76	0.30	0.00	0.00	2.71	2.05
65	38	27	117 69	0.20	0.00	0.00	0.71	0.32
66	14	37	-128.00	0.20	0.00	0.00	0.46	0.31
67	18	34	-43 56	0.77	0.00	0.00	0.67	1.44
68	34	35	-32 84	0.16	0.00	0.00	0.30	0.09
69	32	26	-224.41	0.91	0.00	0.00	1.00	0.43
70	31	39	-1130 29	2.55	0.00	0.00	2.51	3.69
71	32	31	140 01	0.37	0.00	0.00	0.95	1.10
72	30	40	-745 01	1.00	0.00	0.00	1.50	1.43
73	47	45	-99 03	0.22	0.00	0.00	0.24	2.29
74	46	44	-12 16	0.22	0.00	0.00	0.19	0.25
75	46	47	-49 57	0.15	0.00	0.00	0.22	0.10
76	44	51	20 14	0.14	0.00	0.00	0.23	0.26
77	65	44	-31 04	0.12	0.00	0.00	2.23	1.09
78	74	74	20 00	0.41	0.00	0.00	0.33	0.21
79	74	40	-20 00	4.24	0.00	0.00	1.21	3.02
80	60	40	121 19	0.12	0.00	0.00	0.79	1.41
81	62	40	-61 92	0.10	0.00	0.00	3.33	2.18
82	64	62	-102 49	1.10	0.00	0.00	1.16	1.56
83	46	62	16 07	0.19	0.00	0.00	0.18	0.27
84	64	67	229 07	0.40	0.00	0.00	1.10	0.08
85	49	68	-79 20	0.11	0.00	0.00	0.33	0.20
86	66	67	-69 13	0.02	0.00	0.00	0.20	0.07
87	69	73	130 12	3.41	0.00	0.00	1.16	2.09
88	73	73	-106 27	0.13	0.00	0.00	1.71	4.30
89	75	124	-91 47	0.16	0.00	0.00	1.72	1.71
90	76	124	-70 41	0.41	0.00	0.00	2.46	1.31
91	127	124	146 16	6.24	0.00	0.00	1.66	4.17
92	123	124	20 60	0.11	0.00	0.00	0.32	0.21
93	126	74	-70 14	1.77	0.00	0.00	0.09	1.32
94	75	74	-71 06	0.15	0.00	0.00	0.42	1.12
95	76	77	-122 13	1.19	0.00	0.00	1.40	1.04
96	77	67	-418 19	1.09	0.00	0.00	1.71	1.99
97	77	70	-225 19	2.27	0.00	0.00	2.16	4.11
98	78	68	-233 08	0.33	0.00	0.00	0.44	4.37
99	67	60	-231 40	0.30	0.00	0.00	0.15	0.07
100	64	62	-120 70	1.27	0.00	0.00	1.19	2.01
101	66	63	-700 27	1.06	0.00	0.00	2.24	2.64
102	60	69	334 05	0.66	0.00	0.00	1.29	1.10
103	69	50	93.21	1.09	0.00	0.00	0.04	1.03
104	67	61	-624 75	1.27	0.00	0.00	2.49	3.40
105	61	62	130 41	1.05	0.00	0.00	1.40	3.27
106	61	62	877.25	1.04	0.00	0.00	1.66	3.44
107	60	60	224.69	0.11	0.00	0.00	0.32	0.44
108	59	60	-191.19	4.33	0.00	0.00	2.19	4.07
109	60	61	122 48	0.02	0.00	0.00	0.30	0.10
110	57	60	67.01	0.16	0.00	0.00	0.71	0.08
111	57	49	63 01	1.40	0.00	0.00	0.71	4.00
112	57	49	63 01	1.75	0.00	0.00	0.41	1.10
113	58	10	249 19	1.10	0.00	0.00	0.44	1.14
114	58	11	-69 14	1.10	0.00	0.00	2.10	1.10
115	58	12	-349 74	2.22	0.00	0.00	2.00	1.44
116	58	12	-744 70	2.01	0.00	0.00	2.00	1.44
117	58	12	2190 49	2.00	0.00	0.00	1.20	2.00
118	57	14	-199 40	1.70	0.00	0.00	1.20	0.00
119	51	72	199 44	1.61	0.00	0.00	1.20	0.00
120	54	71	1990 41	1.61	0.00	0.00	2.19	1.20
121	71	72	107 21	1.14	0.00	0.00	0.71	0.37
122	72	70	200 47	1.30	0.00	0.00	1.00	2.27
123	71	71	1000 22	1.01	0.00	0.00	1.01	2.00
124	66	68	-263.49	1.94	0.00	0.00	1.00	1.44
125	62	50	-316.72	1.70	0.00	0.00	1.00	1.19
126	70	50	-24 41	0.21	0.00	0.00	0.22	0.30
127	70	60	-120 96	1.16	0.00	0.00	1.47	1.10
128	69	67	07 20	1.12	0.00	0.00	0.40	1.00
129	70	70	101 49	1.17	0.00	0.00	1.01	1.11
130	70	121	-262 44	1.19	0.00	0.00	0.70	0.10
131	77	122	630 02	1.61	0.00	0.00	1.71	1.05
132	122	123	-133 00	0.03	0.00	0.00	1.71	1.10
133	123	120	-147 40	1.04	0.00	0.00	1.67	0.23
134	125	102	91 70	2.71	0.00	0.00	1.00	1.00
135	126	126	-160 16	0.21	0.00	0.00	1.70	1.40
136	124	102	600 10	2.12	0.00	0.00	1.70	1.61
137	127	126	720 00	1.11	0.00	0.00	1.94	2.16

143	117	80	-179.02	1.01	0.00	0.00	2.00	1.30
144	117	81	-40.28	1.01	0.00	0.00	0.46	0.36
145	00	81	107.58	1.49	1.00	0.00	1.33	0.36
146	01	70	-182.17	1.41	1.00	0.00	0.97	0.60
147	01	82	217.43	1.06	1.00	0.00	1.47	0.60
148	112	82	-232.92	1.00	1.00	0.00	1.39	1.30
149	02	83	101.14	1.43	1.00	0.00	1.33	0.94
150	100	83	-96.09	1.04	1.00	0.00	1.09	1.04
151	04	83	-12.77	1.00	1.00	0.00	0.04	0.01
152	04	84	-81.74	1.00	1.00	0.00	0.04	0.21
153	01	84	54.27	1.00	1.00	0.00	0.35	0.09
154	100	84	-85.92	1.04	1.00	0.00	1.09	1.04
155	100	85	-96.25	1.00	1.00	0.00	1.09	1.04
156	100	86	-174.69	1.61	1.00	0.00	1.14	0.01
157	06	88	-144.82	1.11	1.00	0.00	1.06	0.71
158	07	88	376.42	1.19	1.00	0.00	2.60	1.22
159	07	104	1512.80	1.00	1.00	0.00	2.61	1.34
160	00	89	250.40	1.32	1.00	0.00	1.30	1.09
161	00	90	-10.19	1.01	1.00	0.00	0.44	0.19
162	100	90	-249.27	1.22	1.00	0.00	1.72	1.73
163	06	91	244.99	1.11	1.00	0.00	2.00	0.90
164	06	91	244.84	1.08	1.00	0.00	3.31	3.63
165	07	100	663.43	1.42	1.00	0.00	1.39	0.61
166	01	95	967.72	1.04	1.00	0.00	3.62	0.99
167	08	22	944.47	1.01	1.00	0.00	6.78	80.92
168	03	93	771.87	1.00	1.00	0.00	8.76	40.27
169	03	94	-237.10	1.06	1.00	0.00	3.38	0.44
170	01	102	-435.17	1.12	1.00	0.00	3.62	21.70
171	04	100	-144.24	1.12	1.00	0.00	4.75	11.37
172	04	95	444.84	1.12	1.00	0.00	1.85	4.41
173	06	100	42.83	1.08	1.00	0.00	1.52	0.19
174	05	98	-448.97	1.03	1.00	0.00	3.18	0.21
175	07	107	227.11	1.11	1.00	0.00	1.69	1.28
176	07	98	-914.26	0.67	1.00	0.00	8.00	16.04
177	08	101	-1729.60	4.44	0.00	0.00	1.00	3.15
178	08	99	318.24	0.06	0.00	0.00	3.08	2.07
179	102	94	-12.12	0.11	0.00	0.00	0.95	1.30
180	09	104	47.16	0.02	0.00	0.00	1.00	1.00
181	06	100	142.16	0.11	0.00	0.00	1.16	0.84
182	100	100	144.04	0.11	0.00	0.00	1.00	0.84
183	101	100	-10.01	0.00	0.00	0.00	0.41	0.17
184	101	100	-13.72	0.00	0.00	0.00	0.31	0.00
185	101	101	67.43	0.17	0.00	0.00	1.54	0.32
186	103	100	-1449.01	0.00	0.00	0.00	3.04	2.99
187	105	100	-13.46	0.00	0.00	0.00	1.11	0.01
188	105	110	149.00	0.11	0.00	0.00	2.39	0.04
189	104	109	83.97	0.11	0.00	0.00	1.73	0.90
190	109	102	103.84	0.00	0.00	0.00	1.24	0.04
191	107	108	14.62	0.00	0.00	0.00	3.00	0.01
192	109	100	-111.54	0.43	0.00	0.00	1.06	0.07
193	108	107	-42.10	0.30	0.00	0.00	0.40	0.43
194	108	107	-21.27	0.12	0.00	0.00	3.38	2.27
195	108	107	5.37	0.00	0.00	0.00	3.00	0.00
196	107	108	-34.33	0.27	0.00	0.00	3.23	2.29
197	109	108	-43.22	0.00	0.00	0.00	3.88	3.01
198	109	107	48.67	0.23	0.00	0.00	0.30	0.11
199	108	105	-32.51	0.24	0.00	0.00	3.37	0.26
200	109	110	-30.10	0.31	0.00	0.00	8.13	0.03
201	109	106	70.14	0.11	0.00	0.00	0.18	0.03
202	109	110	-12.80	0.20	0.00	0.00	3.37	0.30
203	110	111	-94.16	0.04	0.00	0.00	1.11	0.16
204	110	111	-21.03	0.23	0.00	0.00	8.02	2.21
205	110	111	-141.06	0.20	0.00	0.00	3.63	0.17
206	112	111	277.40	0.27	0.00	0.00	1.13	0.93
207	112	110	216.12	0.14	0.00	0.00	3.48	0.00
208	111	110	48.84	0.13	0.00	0.00	3.44	0.34
209	114	111	131.89	0.13	0.00	0.00	3.63	0.31
210	114	111	-37.11	0.11	0.00	0.00	3.43	0.34
211	113	114	39.13	0.23	0.00	0.00	8.15	0.03
212	114	113	89.78	0.17	0.00	0.00	3.87	0.42
213	112	111	-119.43	0.16	0.00	0.00	8.09	2.04
214	112	109	226.50	1.01	0.00	0.00	1.44	2.75
215	113	111	-12.12	0.04	0.00	0.00	3.31	0.12
216	115	114	40.88	0.24	0.00	0.00	0.16	0.00
217	111	115	-42.43	0.19	0.00	0.00	3.48	0.42
218	110	111	-92.67	0.24	0.00	0.00	2.00	0.00
219	110	114	-87.04	0.11	0.00	0.00	1.66	0.71
220	116	115	119.40	0.00	0.00	0.00	1.71	0.01
221	110	110	141.81	0.79	0.00	0.00	1.00	0.00
222	116	117	-21.12	0.44	0.00	0.00	2.60	0.18
223	116	110	41.70	0.08	0.00	0.00	1.18	0.21
224	110	117	872.62	0.72	0.00	0.00	1.38	0.00
225	119	114	101.16	0.72	0.00	0.00	2.61	0.51
226	119	110	320.14	0.19	0.00	0.00	2.10	4.80
227	119	114	1549.90	1.19	0.00	0.00	4.37	0.10
228	120	121	2220.02	2.03	0.00	0.00	0.00	0.04
229	120	121	-2011.23	0.00	0.00	0.00	0.00	0.11
230	120	127	194.41	1.01	0.00	0.00	1.40	1.00
231	127	141	216.84	1.17	0.00	0.00	2.71	10.11
232	141	141	-216.84	1.01	0.00	0.00	3.80	0.11
233	141	141	-14.14	0.11	0.00	0.00	1.20	0.11
234	141	141	-14.14	0.11	0.00	0.00	0.00	0.11
235	141	141	-14.14	0.11	0.00	0.00	0.00	0.11

202	145	146	242	88	1	03	0	02	0	00	1	54	1	54
203	146	147	243	81	0	35	0	02	0	01	1	10	4	44
204	147	148	244	24	0	72	0	02	0	01	1	10	1	45
205	148	149	245	23	0	86	0	02	0	01	1	10	1	24
206	149	150	246	24	0	21	0	02	0	01	1	09	1	01
207	150	151	247	25	0	26	0	02	0	01	1	09	1	04
208	151	152	248	26	0	10	0	02	0	01	1	08	0	30
209	152	153	249	27	0	12	0	02	0	01	1	07	0	02
210	153	154	250	28	0	19	0	02	0	01	1	06	0	20
211	154	155	251	29	0	11	0	02	0	01	1	05	0	01
212	155	156	252	30	0	06	0	02	0	01	1	04	0	14
213	156	157	253	31	0	10	0	02	0	01	1	03	0	10
214	157	158	254	32	0	29	0	02	0	01	1	02	0	00
215	158	159	255	33	0	51	0	02	0	01	1	01	1	03
216	159	160	256	34	0	39	0	02	0	01	1	00	2	21
217	160	161	257	35	0	42	0	02	0	01	1	00	3	12
218	161	162	258	36	0	77	0	02	0	01	1	00	4	12
219	162	163	259	37	0	00	0	02	0	01	1	00	5	29
220	163	164	260	38	0	20	0	02	0	01	1	00	6	40
221	164	165	261	39	0	57	0	02	0	01	1	00	7	24
222	165	166	262	40	0	66	0	02	0	01	1	00	8	17
223	166	167	263	41	0	28	0	02	0	01	1	00	9	39
224	167	168	264	42	0	28	0	02	0	01	1	00	1	01
225	168	169	265	43	0	11	0	02	0	01	1	00	2	01
226	169	170	266	44	0	13	0	02	0	01	1	00	3	04
227	170	171	267	45	0	38	0	02	0	01	1	00	4	13
228	171	172	268	46	0	15	0	02	0	01	1	00	5	00
229	172	173	269	47	0	17	0	02	0	01	1	00	6	09
230	173	174	270	48	0	25	0	02	0	01	1	00	7	02
231	174	175	271	49	0	33	0	02	0	01	1	00	8	11
232	175	176	272	50	0	62	0	02	0	01	1	00	9	24
233	176	177	273	51	0	28	0	02	0	01	1	00	1	42
234	177	178	274	52	0	07	0	02	0	01	1	00	2	14
235	178	179	275	53	0	01	0	02	0	01	1	00	3	11
236	179	180	276	54	0	02	0	02	0	01	1	00	4	24
237	180	181	277	55	0	09	0	02	0	01	1	00	5	10
238	181	182	278	56	0	07	0	02	0	01	1	00	6	26
239	182	183	279	57	0	00	0	02	0	01	1	00	7	00
240	183	184	280	58	0	03	0	02	0	01	1	00	8	05
241	184	185	281	59	0	09	0	02	0	01	1	00	9	34
242	185	186	282	60	0	21	0	02	0	01	1	00	1	02
243	186	187	283	61	0	08	0	02	0	01	1	00	2	07
244	187	188	284	62	0	30	0	02	0	01	1	00	3	01
245	188	189	285	63	0	32	0	02	0	01	1	00	4	04
246	189	190	286	64	0	00	0	02	0	01	1	00	5	07
247	190	191	287	65	0	30	0	02	0	01	1	00	6	01
248	191	192	288	66	0	28	0	02	0	01	1	00	7	04
249	192	193	289	67	0	00	0	02	0	01	1	00	8	07
250	193	194	290	68	0	00	0	02	0	01	1	00	9	01
251	194	195	291	69	0	00	0	02	0	01	1	00	1	04
252	195	196	292	70	0	00	0	02	0	01	1	00	2	07
253	196	197	293	71	0	00	0	02	0	01	1	00	3	01
254	197	198	294	72	0	00	0	02	0	01	1	00	4	04
255	198	199	295	73	0	00	0	02	0	01	1	00	5	07
256	199	200	296	74	0	00	0	02	0	01	1	00	6	01
257	200	201	297	75	0	00	0	02	0	01	1	00	7	04
258	201	202	298	76	0	00	0	02	0	01	1	00	8	07
259	202	203	299	77	0	00	0	02	0	01	1	00	9	01
260	203	204	300	78	0	00	0	02	0	01	1	00	1	04
261	204	205	301	79	0	00	0	02	0	01	1	00	2	07
262	205	206	302	80	0	00	0	02	0	01	1	00	3	01
263	206	207	303	81	0	00	0	02	0	01	1	00	4	04
264	207	208	304	82	0	00	0	02	0	01	1	00	5	07
265	208	209	305	83	0	00	0	02	0	01	1	00	6	01
266	209	210	306	84	0	00	0	02	0	01	1	00	7	04
267	210	211	307	85	0	00	0	02	0	01	1	00	8	07
268	211	212	308	86	0	00	0	02	0	01	1	00	9	01
269	212	213	309	87	0	00	0	02	0	01	1	00	1	04
270	213	214	310	88	0	00	0	02	0	01	1	00	2	07
271	214	215	311	89	0	00	0	02	0	01	1	00	3	01
272	215	216	312	90	0	00	0	02	0	01	1	00	4	04
273	216	217	313	91	0	00	0	02	0	01	1	00	5	07
274	217	218	314	92	0	00	0	02	0	01	1	00	6	01
275	218	219	315	93	0	00	0	02	0	01	1	00	7	04
276	219	220	316	94	0	00	0	02	0	01	1	00	8	07
277	220	221	317	95	0	00	0	02	0	01	1	00	9	01
278	221	222	318	96	0	00	0	02	0	01	1	00	1	04
279	222	223	319	97	0	00	0	02	0	01	1	00	2	07
280	223	224	320	98	0	00	0	02	0	01	1	00	3	01
281	224	225	321	99	0	00	0	02	0	01	1	00	4	04
282	225	226	322	100	0	00	0	02	0	01	1	00	5	07
283	226	227	323	101	0	00	0	02	0	01	1	00	6	01
284	227	228	324	102	0	00	0	02	0	01	1	00	7	04
285	228	229	325	103	0	00	0	02	0	01	1	00	8	07
286	229	230	326	104	0	00	0	02	0	01	1	00	9	01
287	230	231	327	105	0	00	0	02	0	01	1	00	1	04
288	231	232	328	106	0	00	0	02	0	01	1	00	2	07
289	232	233	329	107	0	00	0	02	0	01	1	00	3	01
290	233	234	330	108	0	00	0	02	0	01	1	00	4	04
291	234	235	331	109	0	00	0	02	0	01	1	00	5	07
292	235	236	332	110	0	00	0	02	0	01	1	00	6	01
293	236	237	333	111	0	00	0	02	0	01	1	00	7	04
294	237	238	334	112	0	00	0	02	0	01	1	00	8	07
295	238	239	335	113	0	00	0	02	0	01	1	00	9	01
296	239	240	336	114	0	00	0	02	0	01	1	00	1	04
297	240	241	337	115	0	00	0	02	0	01	1	00	2	07
298	241	242	338	116	0	00	0	02	0	01	1	00	3	01
299	242	243	339	117	0	00	0	02	0	01	1	00	4	04
300	243	244	340	118	0	00	0	02	0	01	1	00	5	07
301	244	245	341	119	0	00	0	02	0	01	1	00	6	01
302	245	246	342	120	0	00	0	02	0	01	1	00	7	04
303	246	247	343	121	0	00	0	02	0	01	1	00	8	07
304	247	248	344	122	0	00	0	02	0	01	1	00	9	01
305	248	249	345	123	0	00	0	02	0	01	1	00	1	04
306	249	250	346	124	0	00	0	02	0	01	1	00	2	07
307	250	251	347	125	0	00	0	02	0	01	1	00	3	01
308	251	252	348	126	0	00	0	02	0	01	1	00	4	04
309	252	253	349	127	0	00	0	02	0	01	1	00	5	07
310	253	254	350	128	0	00	0	02	0	01	1	00	6	01
311	254	255	351	129	0	00	0	02	0	01	1	00	7	04
312	255	256	352	130	0	00	0	02	0	01	1	00	8	07
313	256	257	353	131	0	00	0	02	0	01	1	00	9	01
314	257	258	354	132	0	00	0	02	0	01	1	00	1	04
315	258	259	355	133	0	00	0	02	0	01	1	00	2	07
316</														

241	202	244	-155.42	0.06	0.00	0.00	0.00	0.00
242	202	244	170.84	0.11	0.00	0.00	0.00	0.00
243	202	244	34.16	0.13	0.00	0.00	0.00	0.00
244	202	244	114.97	0.15	0.00	0.00	0.00	0.00
245	202	244	3.17	0.00	0.00	0.00	0.00	0.00
246	202	244	46.20	0.09	0.00	0.00	0.00	0.00
247	202	244	64.64	0.21	0.00	0.00	0.00	0.00
248	202	244	44.24	0.17	0.00	0.00	0.00	0.00
249	202	244	114.72	0.24	0.00	0.00	0.00	0.00
250	202	244	87.42	0.17	0.00	0.00	0.00	0.00
251	202	244	262.01	1.11	0.00	0.00	0.00	0.00
252	202	244	-324.00	0.24	0.00	0.00	0.00	0.00
253	202	244	-42.05	0.00	0.00	0.00	0.00	0.00
254	202	244	-42.04	0.04	0.00	0.00	0.00	0.00
255	202	244	42.22	0.19	0.00	0.00	0.00	0.00
256	202	244	15.27	0.05	0.00	0.00	0.00	0.00
257	202	244	-31.27	0.01	0.00	0.00	0.00	0.00
258	202	244	24.44	0.02	0.00	0.00	0.00	0.00
259	202	244	-14.03	0.02	0.00	0.00	0.00	0.00
260	202	244	-23.27	0.04	0.00	0.00	0.00	0.00
261	202	244	-54.64	0.13	0.00	0.00	0.00	0.00
262	202	244	17.19	0.06	0.00	0.00	0.00	0.00
263	202	244	-20.02	0.01	0.00	0.00	0.00	0.00
264	202	244	-252.91	0.13	0.00	0.00	0.00	0.00
265	202	244	-119.22	0.15	0.00	0.00	0.00	0.00
266	202	244	-15.77	0.00	0.00	0.00	0.00	0.00
267	202	244	144.42	0.20	0.00	0.00	0.00	0.00
268	202	244	290.40	0.31	0.00	0.00	0.00	0.00
269	202	244	71.83	0.09	0.00	0.00	0.00	0.00
270	202	244	217.61	0.01	0.00	0.00	0.00	0.00
271	202	244	117.30	0.00	0.00	0.00	0.00	0.00
272	202	244	-446.89	0.17	0.00	0.00	0.00	0.00
273	202	244	-200.49	0.00	0.00	0.00	0.00	0.00
274	202	244	0.00	0.00	0.00	0.00	0.00	0.00
275	202	244	-12.00	0.01	0.00	0.00	0.00	0.00
276	202	244	-66.20	0.02	0.00	0.00	0.00	0.00
277	202	244	-157.09	0.01	0.00	0.00	0.00	0.00
278	202	244	-414.84	0.20	0.00	0.00	0.00	0.00
279	202	244	-722.17	0.23	0.00	0.00	0.00	0.00
280	202	244	-959.76	0.07	0.00	0.00	0.00	0.00
281	202	244	217.60	0.13	0.00	0.00	0.00	0.00
282	202	244	-10.64	0.00	0.00	0.00	0.00	0.00
283	202	244	7.20	0.01	0.00	0.00	0.00	0.00
284	202	244	11.61	0.03	0.00	0.00	0.00	0.00
285	202	244	10.00	0.03	0.00	0.00	0.00	0.00
286	202	244	-10.00	0.01	0.00	0.00	0.00	0.00
287	202	244	-22.02	0.00	0.00	0.00	0.00	0.00
288	202	244	-10.40	0.02	0.00	0.00	0.00	0.00
289	202	244	2.27	0.00	0.00	0.00	0.00	0.00
290	202	244	-22.27	0.02	0.00	0.00	0.00	0.00
291	202	244	5.52	0.00	0.00	0.00	0.00	0.00
292	202	244	41.33	0.00	0.00	0.00	0.00	0.00
293	202	244	120.60	0.00	0.00	0.00	0.00	0.00
294	202	244	149.13	0.00	0.00	0.00	0.00	0.00
295	202	244	7.89	0.01	0.00	0.00	0.00	0.00
296	202	244	-22.30	0.00	0.00	0.00	0.00	0.00
297	202	244	-14.70	0.01	0.00	0.00	0.00	0.00
298	202	244	101.72	0.05	0.00	0.00	0.00	0.00
299	202	244	-72.00	0.00	0.00	0.00	0.00	0.00
300	202	244	-66.00	0.11	0.00	0.00	0.00	0.00
301	202	244	81.51	0.14	0.00	0.00	0.00	0.00
302	202	244	-20.70	0.00	0.00	0.00	0.00	0.00
303	202	244	16.80	0.03	0.00	0.00	0.00	0.00
304	202	244	34.00	0.19	0.00	0.00	0.00	0.00
305	202	244	34.45	0.01	0.00	0.00	0.00	0.00
306	202	244	79.25	0.13	0.00	0.00	0.00	0.00
307	202	244	16.14	0.00	0.00	0.00	0.00	0.00
308	202	244	5.32	0.01	0.00	0.00	0.00	0.00
309	202	244	6.44	0.01	0.00	0.00	0.00	0.00
310	202	244	-0.40	0.00	0.00	0.00	0.00	0.00
311	202	244	1.20	0.00	0.00	0.00	0.00	0.00
312	202	244	0.79	0.00	0.00	0.00	0.00	0.00
313	202	244	0.96	0.00	0.00	0.00	0.00	0.00
314	202	244	1.78	0.00	0.00	0.00	0.00	0.00
315	202	244	-0.32	0.00	0.00	0.00	0.00	0.00
316	202	244	-3.96	0.00	0.00	0.00	0.00	0.00
317	202	244	-3.48	0.00	0.00	0.00	0.00	0.00
318	202	244	-7.15	0.00	0.00	0.00	0.00	0.00
319	202	244	-4.30	0.00	0.00	0.00	0.00	0.00
320	202	244	17.00	0.04	0.00	0.00	0.00	0.00
321	202	244	6.60	0.01	0.00	0.00	0.00	0.00
322	202	244	4.34	0.00	0.00	0.00	0.00	0.00
323	202	244	1.13	0.00	0.00	0.00	0.00	0.00
324	202	244	0.66	0.00	0.00	0.00	0.00	0.00
325	202	244	0.30	0.00	0.00	0.00	0.00	0.00
326	202	244	0.10	0.00	0.00	0.00	0.00	0.00
327	202	244	0.10	0.00	0.00	0.00	0.00	0.00
328	202	244	0.10	0.00	0.00	0.00	0.00	0.00
329	202	244	0.10	0.00	0.00	0.00	0.00	0.00
330	202	244	0.10	0.00	0.00	0.00	0.00	0.00
331	202	244	0.10	0.00	0.00	0.00	0.00	0.00
332	202	244	0.10	0.00	0.00	0.00	0.00	0.00
333	202	244	0.10	0.00	0.00	0.00	0.00	0.00
334	202	244	0.10	0.00	0.00	0.00	0.00	0.00
335	202	244	0.10	0.00	0.00	0.00	0.00	0.00
336	202	244	0.10	0.00	0.00	0.00	0.00	0.00
337	202	244	0.10	0.00	0.00	0.00	0.00	0.00
338	202	244	0.10	0.00	0.00	0.00	0.00	0.00
339	202	244	0.10	0.00	0.00	0.00	0.00	0.00
340	202	244	0.10	0.00	0.00	0.00	0.00	0.00
341	202	244	0.10	0.00	0.00	0.00	0.00	0.00
342	202	244	0.10	0.00	0.00	0.00	0.00	0.00
343	202	244	0.10	0.00	0.00	0.00	0.00	0.00
344	202	244	0.10	0.00	0.00	0.00	0.00	0.00
345	202	244	0.10	0.00	0.00	0.00	0.00	0.00
346	202	244	0.10	0.00	0.00	0.00	0.00	0.00
347	202	244	0.10	0.00	0.00	0.00	0.00	0.00
348	202	244	0.10	0.00	0.00	0.00	0.00	0.00
349	202	244	0.10	0.00	0.00	0.00	0.00	0.00
350	202	244	0.10	0.00	0.00	0.00	0.00	0.00
351	202	244	0.10	0.00	0.00	0.00	0.00	0.00
352	202	244	0.10	0.00	0.00	0.00	0.00	0.00
353	202	244	0.10	0.00	0.00	0.00	0.00	0.00
354	202	244	0.10	0.00	0.00	0.00	0.00	0.00
355	202	244	0.10	0.00	0.00	0.00	0.00	0.00
356	202	244	0.10	0.00	0.00	0.00	0.00	0.00
357	202	244	0.10	0.00	0.00	0.00	0.00	0.00
358	202	244	0.10	0.00	0.00	0.00	0.00	0.00
359	202	244	0.10	0.00	0.00	0.00	0.00	0.00
360	202	244	0.10	0.00	0.00	0.00	0.00	0.00
361	202	244	0.10	0.00	0.00	0.00	0.00	0.00
362	202	244	0.10	0.00	0.00	0.00	0.00	0.00
363	202	244	0.10	0.00	0.00	0.00	0.00	0.00
364	202	244	0.10	0.00	0.00	0.00	0.00	0.00
365	202	244	0.10	0.00	0.00	0.00	0.00	0.00
366	202	244	0.10	0.00	0.00	0.00	0.00	0.00
367	202	244	0.10	0.00	0.00	0.00	0.00	0.00
368	202	244	0.10	0.00	0.00	0.00	0.00	0.00
369	202	244	0.10	0.00	0.00	0.00	0.00	0.00
370	202	244	0.10	0.00	0.00	0.00	0.00	0.00
371	202	244	0.10	0.00	0.00	0.00	0.00	0.00
372	202	244	0.10	0.00	0.00	0.00	0.00	0.00
373	202	244	0.10	0.00	0.00	0.00	0.00	0.00
374	202	244	0.10	0.00	0.00	0.00	0.00	0.00
375	202	244	0.10	0.00	0.00	0.00	0.00	0.00
376	202	244	0.10	0.00	0.00	0.00	0.00	0.00
377	202	244	0.10	0.00	0.00	0.00	0.00	0.00
378	202	244	0.10	0.00	0.00	0.00	0.00	0.00
379	202	244	0.10	0.00	0.00	0.00	0.00	0.00
380	202	244	0.10	0.00	0.00	0.00	0.00	0.00
381	202	244	0.10	0.00	0.00	0.00	0.00	0.00
382	202	244	0.10	0.00	0.00	0.00	0.00	0.00
383	202	244	0.10	0.00	0.00	0.00	0.00	0.00
384	202	244	0.10	0.00	0.00	0.00	0.00	0.00
385	202	244	0.10	0.00	0.00	0.00	0.00	0.00
386	202	244	0.10	0.00	0.00	0.00	0.00	0.00
387	202	244	0.10	0.00	0.00	0.00	0.00	0.00
388	202	244	0.10	0.00	0.00	0.00	0.	

442	306	307	-6.85	0.22	9.23	1.00	0.13	0.13
443	306	308	22.55	0.26	0.23	1.01	0.26	0.13
444	306	309	-22.55	0.27	0.23	1.00	0.26	0.13
445	307	309	-22.55	0.26	0.23	1.00	0.26	0.13
446	309	309	0.00	0.26	0.23	1.00	0.26	0.13
447	307	308	-6.85	0.27	0.20	1.00	0.17	0.13
448	309	307	-112.23	0.16	0.00	1.00	0.17	0.13
449	309	308	90.55	0.07	0.00	1.00	0.17	0.13
450	306	307	172.75	0.34	0.10	1.00	0.16	0.13
451	304	305	-65.85	1.00	0.00	1.00	0.16	0.13
452	302	306	72.53	1.07	0.00	1.00	0.03	1.17
453	301	306	-65.80	0.00	0.00	1.00	0.16	0.06
454	301	304	-11.36	0.00	0.00	1.00	0.16	0.07
455	301	303	-64.34	1.55	0.00	1.00	0.16	0.10
456	302	302	-129.87	1.27	0.00	1.00	0.17	1.34
457	302	303	-129.87	1.07	0.00	1.00	0.16	0.12
458	309	304	-196.97	0.27	0.00	1.00	0.17	0.16
459	304	304	-102.74	0.24	0.00	1.00	0.17	0.17
460	304	303	-66.04	0.17	0.00	1.00	0.17	0.16
461	302	307	-32.00	0.20	0.00	1.00	0.16	0.16
462	300	307	-7.14	0.00	0.00	1.00	0.16	0.16
463	307	309	-40.00	0.34	0.00	1.00	0.16	0.16
464	307	300	53.12	0.54	0.00	1.00	0.17	0.17
465	300	301	61.27	0.09	0.00	1.00	0.16	0.16
466	301	302	33.00	0.23	0.00	1.00	0.16	0.16
467	302	304	16.66	0.26	0.00	1.00	0.16	0.16
468	304	304	94.23	0.41	0.00	1.00	0.16	0.16
469	307	303	16.20	0.02	0.00	1.00	0.16	0.16
470	307	304	-16.00	0.00	0.00	1.00	0.16	0.16
471	303	303	30.62	0.02	0.00	1.00	0.16	0.16
472	303	303	-75.30	0.17	0.00	1.00	0.16	0.16
473	301	302	-50.13	0.21	0.00	1.00	0.16	0.16
474	300	300	-259.27	0.37	0.00	1.00	0.16	0.16
475	300	300	120.36	0.29	0.00	1.00	0.16	0.16
476	300	300	101.77	1.61	0.00	1.00	0.16	0.16
477	300	300	101.77	0.00	0.00	1.00	0.16	0.16
478	300	300	-127.05	0.12	0.00	1.00	0.16	0.16
479	300	300	97.35	0.64	0.00	1.00	0.16	0.16
480	300	300	-655.03	1.25	0.00	1.00	0.16	0.16
481	300	300	-6.26	0.00	0.00	1.00	0.16	0.16
482	300	300	-6.40	0.00	0.00	1.00	0.16	0.16
483	300	300	-17.53	0.00	0.00	1.00	0.16	0.16
484	300	300	-33.95	0.00	0.00	1.00	0.16	0.16
485	300	300	1.36	0.00	0.00	1.00	0.16	0.16
486	300	300	-6.21	0.00	0.00	1.00	0.16	0.16
487	300	300	-1.02	0.00	0.00	1.00	0.16	0.16
488	300	300	-0.00	0.00	0.00	1.00	0.16	0.16
489	300	300	-31.08	0.22	0.00	1.00	0.16	0.16
490	300	300	-8.07	0.00	0.00	1.00	0.16	0.16
491	300	300	-17.80	0.21	0.00	1.00	0.16	0.16
492	300	300	-126.33	0.30	0.00	1.00	0.16	0.16
493	300	300	-309.40	0.47	0.00	1.00	0.16	0.16
494	300	300	229.79	0.06	0.00	1.00	0.16	0.16
495	300	300	72.93	0.24	0.00	1.00	0.16	0.16
496	300	300	-66.27	0.00	0.00	1.00	0.16	0.16
497	300	300	247.74	0.65	0.00	1.00	0.16	0.16
498	300	300	-62.32	0.00	0.00	1.00	0.16	0.16
499	300	300	-531.48	0.04	0.00	1.00	0.16	0.16
500	300	300	-509.49	0.39	0.00	1.00	0.16	0.16
501	300	300	103.64	0.05	0.00	1.00	0.16	0.16
502	300	300	-76.61	0.02	0.00	1.00	0.16	0.16
503	300	300	32.96	0.00	0.00	1.00	0.16	0.16
504	300	300	-60.17	0.33	0.00	1.00	0.16	0.16
505	300	300	-179.41	0.44	0.00	1.00	0.16	0.16
506	300	300	-110.20	0.66	0.00	1.00	0.16	0.16
507	300	300	-120.22	0.55	0.00	1.00	0.16	0.16
508	300	300	-122.43	0.60	0.00	1.00	0.16	0.16
509	300	300	-123.27	0.39	0.00	1.00	0.16	0.16
510	300	300	-31.67	0.00	0.00	1.00	0.16	0.16
511	300	300	-21.73	0.00	0.00	1.00	0.16	0.16
512	300	300	-16.16	0.05	0.00	1.00	0.16	0.16
513	300	300	-65.85	0.16	0.00	1.00	0.16	0.16
514	300	300	-130.02	0.10	0.00	1.00	0.16	0.16
515	300	300	167.36	0.60	0.00	1.00	0.16	0.16
516	300	300	-112.80	0.54	0.00	1.00	0.16	0.16
517	300	300	-124.40	0.00	0.00	1.00	0.16	0.16
518	300	300	-133.30	0.70	0.00	1.00	0.16	0.16
519	300	300	-130.02	0.60	0.00	1.00	0.16	0.16
520	300	300	-321.30	0.02	0.00	1.00	0.16	0.16
521	300	300	-91.40	0.19	0.00	1.00	0.16	0.16
522	300	300	-11.00	0.00	0.00	1.00	0.16	0.16
523	300	300	-126.02	0.02	0.00	1.00	0.16	0.16
524	300	300	-12.33	0.00	0.00	1.00	0.16	0.16
525	300	300	60.50	0.00	0.00	1.00	0.16	0.16
526	300	300	70.99	0.00	0.00	1.00	0.16	0.16
527	300	300	-93.01	0.12	0.00	1.00	0.16	0.16
528	300	300	-172.68	0.06	0.00	1.00	0.16	0.16
529	300	300	-36.06	0.07	0.00	1.00	0.16	0.16
530	300	300	-3.30	0.02	0.00	1.00	0.16	0.16
531	300	300	-16.43	0.02	0.00	1.00	0.16	0.16
532	300	300	-77.20	0.10	0.00	1.00	0.16	0.16
533	300	300	-24.75	0.06	0.00	1.00	0.16	0.16
534	300	300	-70.30	0.04	0.00	1.00	0.16	0.16
535	300	300	-60.33	0.10	0.00	1.00	0.16	0.16

570	304	305	16.26	0.03	0.00	0.00	0.10	0.00
571	307	305	95.01	0.06	0.00	0.00	0.02	0.26
572	306	307	-9.02	0.01	0.00	0.00	0.11	0.03
573	308	307	121.74	0.05	0.00	0.00	1.71	0.34
574	326	308	-46.14	0.01	0.00	0.00	0.29	0.07
575	327	326	-17.37	0.03	0.00	0.00	0.20	0.04
576	327	328	9.21	0.00	0.00	0.00	0.06	0.00
577	328	326	-22.75	0.03	0.00	0.00	0.20	0.07
578	328	306	21.02	0.03	0.00	0.00	0.29	0.07
579	333	308	157.02	0.02	0.00	0.00	0.64	0.33
580	326	301	22.32	0.03	0.00	0.00	0.20	0.07
581	304	296	-14.65	0.02	0.00	0.00	0.19	0.04
582	253	296	-4.01	0.00	0.00	0.00	0.09	0.00
583	301	326	-99.11	0.03	0.00	0.00	0.11	0.30
584	301	296	27.02	0.06	0.00	0.00	0.09	0.10
585	301	300	21.67	0.06	0.00	0.00	0.21	0.07
586	302	301	11.15	0.03	0.00	0.00	0.14	0.03
587	322	320	19.71	0.02	0.00	0.00	0.14	0.02
588	329	321	-9.05	0.02	0.00	0.00	0.11	0.02
589	329	320	-8.25	0.00	0.00	0.00	0.06	0.00
590	330	301	-9.74	0.03	0.00	0.00	0.11	0.02
591	307	300	-12.49	0.01	0.00	0.00	0.13	0.02
592	308	299	-1.04	0.00	0.00	0.00	0.02	0.00
593	229	290	-0.33	0.00	0.00	0.00	0.07	0.01
594	301	302	30.56	0.03	0.00	0.00	0.44	0.19
595	302	321	10.43	0.01	0.00	0.00	0.16	0.03
596	331	326	-30.68	0.03	0.00	0.00	0.35	0.13
597-PG	322	CC	-1.09	0.00	0.00	0.00	0.01	0.00
598	301	322	-1.09	0.00	0.00	0.00	0.01	0.00
599-PG	323	320	-114.91	0.03	0.00	0.00	0.62	0.30
600-MX	307	340					1.29	1.10
601	323	330	157.36	0.03	0.00	0.00	0.64	0.33
602	330	297	157.01	0.03	0.00	0.00	0.64	0.32
603	337	336	-207.78	0.03	0.00	0.00	2.36	1.00
604	326	325	-8.26	0.01	0.00	0.00	0.09	0.04
605	326	327	64.43	0.03	0.00	0.00	0.64	0.28
606	325	326	-106.61	0.01	0.00	0.00	0.12	0.04
607	326	349	-304.30	0.03	0.00	0.00	4.47	20.15
608	327	329	-402.90	0.03	0.00	0.00	5.03	22.42
609-MX	320	347						
610	343	329	231.45	1.27	0.00	0.00	3.01	0.98
611	329	342	-221.45	0.00	0.00	0.00	2.61	0.98
612	340	341	-221.40	0.00	0.00	0.00	2.61	0.98
613	341	341	-402.90	0.00	0.00	0.00	2.03	0.95
614	341	342	221.45	1.27	0.00	0.00	2.91	0.94
615	342	344	-101.47	1.49	0.02	0.00	1.03	0.00
616-MX	344	340						
617	326	345	0.30	0.00	0.00	0.00	0.00	0.00
618	343	345	-7.65	0.00	0.00	0.00	0.03	0.00
619	344	346	-169.03	0.02	0.00	0.00	1.93	0.49
620	344	347	37.38	0.03	0.00	0.00	0.37	0.10
621	343	340	-201.43	0.00	0.00	0.00	2.19	10.00
622	347	340	37.38	0.03	0.00	0.00	0.37	0.10
623	346	349	-3.57	0.00	0.00	0.00	0.08	0.00
624	349	350	-488.37	1.57	0.00	0.00	1.06	0.24
625	340	351	-244.61	1.60	0.00	0.00	1.56	2.46
626	351	352	-110.30	0.20	0.00	0.00	0.71	0.61
627	351	352	-137.62	0.20	0.00	0.00	0.00	0.22
628	352	353	188.44	0.70	0.00	0.00	1.20	2.27
629	353	354	38.04	0.29	0.00	0.00	0.63	0.49
630	346	354	-230.10	1.16	0.00	0.00	1.47	0.39
631	354	355	-195.44	0.66	0.00	0.00	1.20	1.76
632	355	357	-202.20	0.76	0.00	0.00	1.20	1.89
633	357	359	-444.03	2.37	0.00	0.00	2.64	0.01
634	359	357	-243.65	0.60	0.00	0.00	1.44	2.44
635	359	355	410.26	1.00	0.00	0.00	1.60	1.92
636	360	361	607.27	1.75	0.00	0.00	2.81	0.05
637	360	361	-277.01	2.51	0.00	0.00	1.77	2.15
638	361	362	-277.43	0.77	0.00	0.00	1.77	2.36
639-MX	361	362						
640	360	363	-741.04	1.70	0.00	0.00	3.03	1.76
641	360	364	-436.12	0.66	0.00	0.00	4.98	17.15
642	364	366	6.00	0.00	0.00	0.00	0.04	0.00
643-PG	368	372	-446.12	0.73	0.00	0.00	1.62	1.49
644-PG	363	377	-2018.44	0.31	0.00	0.00	0.16	10.37
645	363	362	1018.44	0.49	0.00	0.00	4.16	10.37
646	363	365	0.00	0.00	0.00	0.00	0.30	0.00
647-MV	364	365	189.24	0.00	0.00	0.00	0.46	0.00
648	364	370	-189.24	0.17	0.00	0.00	0.46	0.00
649	365	366	189.24	0.03	0.00	0.00	0.46	0.00
650	366	368	127.23	0.04	0.00	0.00	0.52	0.21
651	366	367	25.94	0.10	0.00	0.00	0.49	0.00
652	367	369	10.74	0.01	0.00	0.00	0.12	0.00
653	369	368	-10.41	0.06	0.00	0.00	0.21	0.00
654	369	371	13.95	0.03	0.00	0.00	0.16	0.00
655	370	371	-11.75	0.03	0.00	0.00	0.13	0.00
656	370	370	13.94	0.01	0.00	0.00	0.15	0.00
657	370	376	-5.10	0.00	0.00	0.00	0.03	0.00
658	370	377	5.44	0.00	0.00	0.00	0.01	0.00
659	377	376	-4.19	0.00	0.00	0.00	0.05	0.00
660	377	373	1.01	0.00	0.00	0.00	0.00	0.00
661	375	375	-10.47	0.00	0.00	0.00	0.12	0.00
662	375	374	26.41	0.00	0.00	0.00	0.11	0.00
663	375	372	-40.04	0.00	0.00	0.00	0.26	0.04
664	377	373	1.51	0.00	0.00	0.00	0.04	0.00
665	377	372	-7.08	0.01	0.00	0.00	0.00	0.00

600-PC	300	60	-193.94	3.12	0.00	0.00	0.00	3.12
601-PC	400	110	1.00	1.00	1.00	1.00	1.00	1.00
614-PC	61	120	-171.74	3.70	0.00	0.00	0.00	13.14
617-XHP	522	521						
618-XHP	522	521						
619-72	522	521	334.11	3.00	3.00	0.00	0.00	1.00
620-72	522	521	-154.11	3.00	3.00	0.00	0.00	1.00
621	522	523	1.00	3.00	3.00	0.00	0.00	1.00
622-XHP	521	524						
623-XHP	523	524						
624-XHP	523	524						
625-XHP	523	524						
626-PC	524	526	0.00	0.00	0.00	0.00	0.00	0.00
627-XHP	526	519						
628-XHP	526	519						
629-XHP	526	519						
630-XHP	526	519						
631	527	528	0.00	3.00	0.00	0.00	0.00	0.00
632	528	500	-91.00	0.00	0.00	0.00	0.00	1.00
633-PC	528	511	-91.00	0.00	0.00	0.00	0.00	1.00
634-PC	501	511						
635-PC	501	511	3.00	0.00	0.00	0.00	0.00	0.00

JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DISCHARGE (GPM)	HYDRAULIC GRADE (FT)	JUNCTION ELEVATION (FT)	PRESSURE HEAD (FT)	JUNCTION PRESSURE (PSI)
1		1.00	3000.45	3025.00	00.00	36.00
2		1.00	3000.45	3025.00	00.00	37.00
3		20.00	3000.21	3025.00	00.00	38.00
4		03.00	3000.77	3025.00	00.00	39.00
5		04.00	3000.37	3025.00	00.00	39.00
6		42.00	3000.34	3025.00	00.00	39.00
7		9.00	3000.30	3025.00	00.00	39.00
8		32.00	3000.40	3025.00	00.00	39.00
9		1.00	3000.40	3025.00	00.00	39.00
10		4.00	3000.44	3025.00	00.00	39.00
11		4.00	3000.45	3025.00	00.00	39.00
12		3.00	3000.40	3025.00	00.00	39.00
13		3.00	3000.57	3025.00	00.00	39.00
14		2.00	3000.22	3025.00	00.00	39.00
15		0.00	3000.34	3025.00	00.00	39.00
16		0.00	3000.74	3025.00	00.00	39.00
17		0.00	3000.70	3025.00	00.00	39.00
18		12.00	3000.30	3025.00	00.00	39.00
19		3.00	3000.30	3025.00	00.00	39.00
20		7.00	3000.37	3025.00	00.00	39.00
21		0.00	3000.37	3025.00	00.00	39.00
22		10.00	3000.34	3025.00	00.00	39.00
23		13.00	3000.34	3025.00	00.00	39.00
24		03.00	3000.47	3025.00	00.00	39.00
25		03.00	3000.60	3025.00	00.00	39.00
26		0.00	3000.60	3025.00	00.00	39.00
27		0.00	3000.30	3025.00	00.00	39.00
28		2.00	3000.30	3025.00	00.00	39.00
29		0.00	3000.37	3025.00	00.00	39.00
30		0.00	3000.37	3025.00	00.00	39.00
31		0.00	3000.31	3025.00	00.00	39.00
32		0.00	3000.31	3025.00	00.00	39.00
33		0.00	3000.34	3025.00	00.00	39.00
34		0.00	3000.40	3025.00	00.00	39.00
35		0.00	3000.71	3025.00	00.00	39.00
36		0.00	3000.61	3025.00	00.00	39.00
37		0.00	3000.61	3025.00	00.00	39.00
38		0.00	3000.11	3025.00	00.00	39.00
39		0.00	3000.30	3025.00	00.00	39.00
40		0.00	3000.37	3025.00	00.00	39.00
41		00.00	3000.31	3025.00	00.00	39.00
42		4.00	3000.25	3025.00	00.00	39.00
43		3.00	3000.31	3025.00	00.00	39.00
44		21.00	3000.00	3025.00	00.00	39.00
45		27.00	3000.22	3025.00	00.00	39.00
46		11.00	3000.04	3025.00	00.00	39.00
47		50.10	3000.21	3025.00	00.00	39.00
48		22.00	3000.67	3025.00	00.00	39.00
49		6.00	3000.53	3025.00	00.00	39.00
50		20.00	3000.64	3025.00	00.00	39.00
51		0.00	3000.74	3025.00	00.00	39.00
52		7.00	3000.07	3025.00	00.00	39.00
53		0.00	3000.20	3025.00	00.00	39.00
54		0.00	3000.06	3025.00	00.00	39.00
55		26.00	3000.21	3025.00	00.00	39.00
56		15.00	3000.20	3025.00	00.00	39.00
57		6.00	3000.00	3025.00	00.00	39.00
58		1.00	3000.00	3025.00	00.00	39.00
59		7.00	3000.62	3025.00	00.00	39.00
60		10.10	3000.00	3025.00	00.00	39.00
61		00.00	3000.63	3025.00	00.00	39.00
62		0.00	3000.67	3025.00	00.00	39.00
63		27.00	3000.77	3025.00	00.00	39.00

87	12.16	3887.99	3885.81	182.89	44.43
88	10.40	3888.29	3882.01	181.28	41.62
89	4.80	3887.44	3880.02	181.64	41.64
90	1.00	3885.04	3878.01	181.44	41.54
91	0.00	3882.24	3884.00	98.34	42.42
92	1.00	3882.22	3884.00	97.22	42.12
93	145.44	3884.82	3881.01	94.82	41.12
94	0.00	3885.41	3887.01	94.41	42.01
95	1.00	3884.48	3882.01	93.47	41.18
96	2.40	3878.81	3882.01	93.81	41.29
97	12.28	3888.09	3882.91	100.99	41.71
98	0.40	3888.07	3882.01	100.07	41.02
99	0.40	3887.70	3879.00	104.71	41.10
100	0.00	3886.02	3879.00	104.82	41.02
101	2.80	3888.00	3879.00	107.00	41.10
102	1.00	3881.47	3876.00	107.47	41.71
103	84.41	3881.04	3876.00	107.04	41.70
104	1.41	3881.04	3880.00	102.04	41.29
105	4.21	3881.09	3881.00	107.09	41.29
106	42.21	3881.04	3882.00	94.04	41.29
107	0.00	3881.38	3882.00	94.38	41.05
108	0.00	3881.16	3882.00	94.16	41.97
109	1.20	3886.00	3882.00	97.00	41.29
110	1.00	3888.00	3882.00	97.00	41.40
111	41.00	3872.62	3880.00	81.62	38.27
112	1146.34	3810.27	3857.00	13.27	5.78
113	21.11	3883.60	3885.00	64.60	29.01
114	0.00	3886.00	3880.00	76.00	30.11
115	419.00	3888.07	3880.00	78.07	32.62
116	48.27	3873.16	3880.00	66.16	31.77
117	21.71	3874.83	3880.00	62.83	30.66
118	0.00	3878.10	3882.00	87.10	30.95
119	4.21	3874.31	3882.00	92.31	40.81
120	0.21	3874.12	3881.00	90.12	40.35
121	0.21	3874.01	3878.00	84.01	41.81
122	0.40	3874.86	3880.00	84.86	40.76
123	0.00	3879.63	3880.00	84.63	40.17
124	0.40	3880.40	3881.00	84.40	40.80
125	42.20	3880.41	3881.00	84.41	40.80
126	46.00	3880.20	3882.00	84.20	40.80
127	44.20	3880.20	3882.00	84.20	40.80
128	43.20	3880.20	3879.00	84.20	40.80
129	1.20	3880.20	3877.00	101.20	44.72
130	1.20	3880.20	3877.00	101.20	44.72
131	1.20	3880.20	3877.00	101.20	44.31
132	1.20	3880.20	3877.00	101.20	44.31
133	21.10	3880.32	3878.00	102.32	41.09
134	2.20	3880.14	3880.00	102.14	40.40
135	0.00	3880.14	3880.00	102.14	40.40
136	7.40	3880.14	3880.00	101.14	40.40
137	2.00	3880.24	3880.00	99.24	40.24
138	0.00	3880.72	3878.00	101.72	40.24
139	0.00	3880.16	3880.00	97.16	40.16
140	0.40	3880.88	3880.00	97.88	40.27
141	0.00	3880.67	3880.00	104.67	40.34
142	1.00	3880.36	3882.00	101.36	40.01
143	0.40	3880.20	3880.00	99.20	40.00
144	4.04	3880.20	3880.00	97.20	40.10
145	0.00	3880.00	3880.00	97.00	40.00
146	99.76	3880.00	3880.00	94.00	41.10
147	1.30	3880.34	3880.00	91.34	41.10
148	11.00	3880.34	3880.00	101.34	40.91
149	2.40	3880.18	3880.00	107.18	40.61
150	2.40	3880.04	3880.00	104.04	40.94
151	10.00	3879.88	3880.00	99.88	41.14
152	1.00	3879.60	3880.00	101.60	40.11
153	0.40	3879.70	3877.00	102.70	40.94
154	0.00	3879.81	3877.00	102.81	40.86
155	0.20	3879.97	3878.00	104.97	40.69
156	0.40	3879.97	3878.00	101.97	41.92
157	0.00	3879.84	3878.00	104.84	40.40
158	4.00	3879.93	3879.00	104.93	40.47
159	0.00	3879.62	3878.00	103.62	40.99
160	0.00	3879.38	3878.00	103.38	40.00
161	123.30	3879.36	3877.00	84.36	39.36
162	0.14	3879.90	3877.00	81.90	38.99
163	83.70	3880.24	3877.00	97.24	39.14
164	14.82	3880.74	3880.00	91.74	40.10
165	7.40	3880.74	3877.00	97.74	40.02
166	3.04	3880.06	3880.00	94.06	41.11
167	0.00	3879.83	3880.00	94.83	41.89
168	0.00	3879.49	3880.00	94.49	40.94
169	0.00	3879.78	3880.00	91.78	41.80
170	0.36	3879.77	3877.00	101.77	40.16
171	4.20	3879.84	3878.00	101.84	40.40
172	1.20	3879.84	3878.00	102.84	40.68
173	0.40	3879.71	3878.00	102.71	40.98
174	10.00	3879.04	3877.00	97.04	41.04
175	10.00	3879.04	3877.00	94.04	41.12
176	0.30	3879.81	3878.00	94.81	40.40
177	4.90	3879.81	3880.00	94.81	39.18
178	140.70	3879.42	3880.00	97.42	38.93
179	105.94	3879.41	3880.00	94.41	38.42
180	04.46	3879.81	3880.00	91.81	37.88
181	0.00	3879.89	3880.00	91.89	36.89
182	0.00	3879.74	3880.00	91.74	35.74
183	0.00	3879.74	3880.00	91.74	35.74

166	1.35	1970 48	2076.00	102 60	40.41
167	2.45	1970 50	2077.00	102.50	41.99
168	3.45	1970 51	2077.00	102.51	42.99
169	1.30	1970 51	2077.00	102.51	42.99
170	3.00	1970 52	2077.00	102.52	43.40
171	10.00	1970 44	2077.00	102.44	37.97
172	15.30	1970.45	2077.00	102.45	38.33
173	12.10	1970.46	2077.00	102.46	38.82
174	5.30	1970.47	2077.00	102.47	39.41
175	8.00	1970.48	2077.00	102.48	39.86
176	4.45	1970.49	2077.00	102.49	39.85
177	419.30	1970.50	2077.00	102.50	40.42
178	7.40	1970.51	2077.00	102.51	40.99
179	3.00	1970.52	2077.00	102.52	41.40
180	2.40	1970.53	2077.00	102.53	41.99
181	3.00	1970.54	2077.00	102.54	42.40
182	14.10	1970.55	2077.00	102.55	42.99
183	1.30	1970.56	2077.00	102.56	43.40
184	2.00	1970.57	2077.00	102.57	43.82
185	1.00	1970.58	2077.00	102.58	44.23
186	0.00	1970.59	2077.00	102.59	44.64
187	0.00	1970.60	2077.00	102.60	45.05
188	0.00	1970.61	2077.00	102.61	45.46
189	0.00	1970.62	2077.00	102.62	45.87
190	0.00	1970.63	2077.00	102.63	46.28
191	0.00	1970.64	2077.00	102.64	46.69
192	0.00	1970.65	2077.00	102.65	47.10
193	0.00	1970.66	2077.00	102.66	47.51
194	0.00	1970.67	2077.00	102.67	47.92
195	0.00	1970.68	2077.00	102.68	48.33
196	42.00	1970.69	2077.00	102.69	48.74
197	0.00	1970.70	2077.00	102.70	49.15
198	41.40	1970.71	2077.00	102.71	49.56
199	42.30	1970.72	2077.00	102.72	50.00
200	42.30	1970.73	2077.00	102.73	50.41
201	0.00	1970.74	2077.00	102.74	50.82
202	0.00	1970.75	2077.00	102.75	51.23
203	0.00	1970.76	2077.00	102.76	51.64
204	420.00	1970.77	2077.00	102.77	52.05
205	1.20	1970.78	2077.00	102.78	52.46
206	1.00	1970.79	2077.00	102.79	52.87
207	1.20	1970.80	2077.00	102.80	53.28
208	1.20	1970.81	2077.00	102.81	53.69
209	1.20	1970.82	2077.00	102.82	54.10
210	1.20	1970.83	2077.00	102.83	54.51
211	1.20	1970.84	2077.00	102.84	54.92
212	1.20	1970.85	2077.00	102.85	55.33
213	1.20	1970.86	2077.00	102.86	55.74
214	1.20	1970.87	2077.00	102.87	56.15
215	1.20	1970.88	2077.00	102.88	56.56
216	1.20	1970.89	2077.00	102.89	56.97
217	1.20	1970.90	2077.00	102.90	57.38
218	1.20	1970.91	2077.00	102.91	57.79
219	1.20	1970.92	2077.00	102.92	58.20
220	1.20	1970.93	2077.00	102.93	58.61
221	1.20	1970.94	2077.00	102.94	59.02
222	1.20	1970.95	2077.00	102.95	59.43
223	1.20	1970.96	2077.00	102.96	59.84
224	1.20	1970.97	2077.00	102.97	60.25
225	1.20	1970.98	2077.00	102.98	60.66
226	1.20	1970.99	2077.00	102.99	61.07
227	1.20	1971.00	2077.00	103.00	61.48
228	1.20	1971.01	2077.00	103.01	61.89
229	1.20	1971.02	2077.00	103.02	62.30
230	1.20	1971.03	2077.00	103.03	62.71
231	1.20	1971.04	2077.00	103.04	63.12
232	1.20	1971.05	2077.00	103.05	63.53
233	1.20	1971.06	2077.00	103.06	63.94
234	1.20	1971.07	2077.00	103.07	64.35
235	1.20	1971.08	2077.00	103.08	64.76
236	1.20	1971.09	2077.00	103.09	65.17
237	1.20	1971.10	2077.00	103.10	65.58
238	1.20	1971.11	2077.00	103.11	65.99
239	1.20	1971.12	2077.00	103.12	66.40
240	1.20	1971.13	2077.00	103.13	66.81
241	1.20	1971.14	2077.00	103.14	67.22
242	1.20	1971.15	2077.00	103.15	67.63
243	1.20	1971.16	2077.00	103.16	68.04
244	1.20	1971.17	2077.00	103.17	68.45
245	1.20	1971.18	2077.00	103.18	68.86
246	1.20	1971.19	2077.00	103.19	69.27
247	1.20	1971.20	2077.00	103.20	69.68
248	1.20	1971.21	2077.00	103.21	70.09
249	1.20	1971.22	2077.00	103.22	70.50
250	1.20	1971.23	2077.00	103.23	70.91
251	1.20	1971.24	2077.00	103.24	71.32
252	1.20	1971.25	2077.00	103.25	71.73
253	1.20	1971.26	2077.00	103.26	72.14
254	1.20	1971.27	2077.00	103.27	72.55
255	1.20	1971.28	2077.00	103.28	72.96
256	1.20	1971.29	2077.00	103.29	73.37
257	1.20	1971.30	2077.00	103.30	73.78
258	1.20	1971.31	2077.00	103.31	74.19
259	1.20	1971.32	2077.00	103.32	74.60
260	1.20	1971.33	2077.00	103.33	75.01
261	1.20	1971.34	2077.00	103.34	75.42
262	1.20	1971.35	2077.00	103.35	75.83
263	1.20	1971.36	2077.00	103.36	76.24
264	1.20	1971.37	2077.00	103.37	76.65
265	1.20	1971.38	2077.00	103.38	77.06
266	1.20	1971.39	2077.00	103.39	77.47
267	1.20	1971.40	2077.00	103.40	77.88
268	1.20	1971.41	2077.00	103.41	78.29
269	1.20	1971.42	2077.00	103.42	78.70
270	1.20	1971.43	2077.00	103.43	79.11
271	1.20	1971.44	2077.00	103.44	79.52
272	1.20	1971.45	2077.00	103.45	79.93
273	1.20	1971.46	2077.00	103.46	80.34
274	1.20	1971.47	2077.00	103.47	80.75
275	1.20	1971.48	2077.00	103.48	81.16
276	1.20	1971.49	2077.00	103.49	81.57
277	1.20	1971.50	2077.00	103.50	81.98
278	1.20	1971.51	2077.00	103.51	82.39
279	1.20	1971.52	2077.00	103.52	82.80
280	1.20	1971.53	2077.00	103.53	83.21
281	1.20	1971.54	2077.00	103.54	83.62
282	1.20	1971.55	2077.00	103.55	84.03
283	1.20	1971.56	2077.00	103.56	84.44
284	1.20	1971.57	2077.00	103.57	84.85
285	1.20	1971.58	2077.00	103.58	85.26
286	1.20	1971.59	2077.00	103.59	85.67
287	1.20	1971.60	2077.00	103.60	86.08
288	1.20	1971.61	2077.00	103.61	86.49
289	1.20	1971.62	2077.00	103.62	86.90
290	1.20	1971.63	2077.00	103.63	87.31
291	1.20	1971.64	2077.00	103.64	87.72
292	1.20	1971.65	2077.00	103.65	88.13
293	1.20	1971.66	2077.00	103.66	88.54
294	1.20	1971.67	2077.00	103.67	88.95
295	1.20	1971.68	2077.00	103.68	89.36
296	1.20	1971.69	2077.00	103.69	89.77
297	1.20	1971.70	2077.00	103.70	90.18
298	1.20	1971.71	2077.00	103.71	90.59
299	1.20	1971.72	2077.00	103.72	91.00
300	1.20	1971.73	2077.00	103.73	91.41
301	1.20	1971.74	2077.00	103.74	91.82
302	1.20	1971.75	2077.00	103.75	92.23
303	1.20	1971.76	2077.00	103.76	92.64
304	1.20	1971.77	2077.00	103.77	93.05
305	1.20	1971.78	2077.00	103.78	93.46
306	1.20	1971.79	2077.00	103.79	93.87
307	1.20	1971.80	2077.00	103.80	94.28
308	1.20	1971.81	2077.00	103.81	94.69
309	1.20	1971.82	2077.00	103.82	95.10
310	1.20	1971.83	2077.00	103.83	95.51
311	1.20	1971.84	2077.00	103.84	95.92
312	1.20	1971.85	2077.00	103.85	96.33
313	1.20	1971.86	2077.00	103.86	96.74
314	1.20	1971.87	2077.00	103.87	97.15
315	1.20	1971.88	2077.00	103.88	97.56
316	1.20	1971.89	2077.00	103.89	97.97
317	1.20	1971.90	2077.00	103.90	98.38
318	1.20	1971.91	2077.00	103.91	98.79
319	1.20	1971.92	2077.00	103.92	99.20
320	1.20	1971.93	2077.00	103.93	99.61
321	1.20	1971.94	2077.00	103.94	100.02
322	1.20	1971.95	2077.00	103.95	100.43
323	1.20	1971.96	2077.00	103.96	100.84
324	1.20	1971.97	2077.00	103.97	101.25
325	1.20	1971.98	2077.00	103.98	101.66
326	1.20	1971.99	2077.00	103.99	102.07
327	1.20	1972.00	2077.00	104.00	102.48
328	1.20	1972.01	2077.00	104.01	102.89
329	1.20	1972.02	2077.00	104.02	103.30
330	1.20	1972.03	2077.00	104.03	103.71
331	1.20	1972.04	2077.00	104.04	104.12
332	1.20	1972.05	2077.00	104.05	104.53
333	1.20	1972.06	2077.00	104.06	104.94
334	1.20	1972.07	2077.00	104.07	105.35
335	1.20	1972.08	2077.00	104.08	105.76
336	1.20	1972.09	2077.00	104.09	106.17
337	1.20	1972.10	2077.00	104.10	106.58
338	1.20	1972.11	2077.00	104.11	106.99
339	1.20	1972.12	2077.00	104.12	107.40
340	1.20	1972.13	2077.00	104.13	107.81
341	1.20	1972.14	2077.00	104.14	108.22
342	1.20	1972.15	2077.00	104.15	108.63
343	1.20	1972.16	2077.00	104.16	109.04
344	1.20	1972.17	2077.00	104.17	109.45
345	1.20	1972.18	2077.00	104.18	109.86
346	1.20	1972.19	2077.00	104.19	110.27
347	1.20	1972.20	2077.00	104.20	110.68
348	1.20	1972.21	2077.00	104.21	111.09
349	1.20	1972.22	2077.00	104.22	111.50
350	1.20	1972.23	2077.00	104.23	111.91
351	1.20	1972.24	2077.00	104.24	112.32
352	1.20	1972.25	20		

265	0.00	1973.40	1979.85	34.40	40.96
266	1.00	1973.46	1979.90	34.46	40.97
267	2.00	1973.50	1979.95	34.50	40.98
268	3.00	1973.52	1979.98	34.52	40.99
269	4.00	1973.53	1979.99	34.53	41.00
270	5.00	1973.54	1979.99	34.54	41.01
271	6.00	1973.55	1979.99	34.55	41.02
272	7.00	1973.57	1979.99	34.57	41.03
273	8.00	1973.58	1979.99	34.58	41.04
274	9.00	1973.58	1979.99	34.58	41.05
275	10.00	1973.60	1979.99	34.60	41.06
276	11.00	1973.61	1979.99	34.61	41.07
277	12.00	1973.62	1979.99	34.62	41.08
278	13.00	1973.63	1979.99	34.63	41.09
279	14.00	1973.64	1979.99	34.64	41.10
280	15.00	1973.65	1979.99	34.65	41.11
281	16.00	1973.66	1979.99	34.66	41.12
282	17.00	1973.67	1979.99	34.67	41.13
283	18.00	1973.68	1979.99	34.68	41.14
284	19.00	1973.69	1979.99	34.69	41.15
285	20.00	1973.70	1979.99	34.70	41.16
286	21.00	1973.71	1979.99	34.71	41.17
287	22.00	1973.72	1979.99	34.72	41.18
288	23.00	1973.73	1979.99	34.73	41.19
289	24.00	1973.74	1979.99	34.74	41.20
290	25.00	1973.75	1979.99	34.75	41.21
291	26.00	1973.76	1979.99	34.76	41.22
292	27.00	1973.77	1979.99	34.77	41.23
293	28.00	1973.78	1979.99	34.78	41.24
294	29.00	1973.79	1979.99	34.79	41.25
295	30.00	1973.80	1979.99	34.80	41.26
296	31.00	1973.81	1979.99	34.81	41.27
297	32.00	1973.82	1979.99	34.82	41.28
298	33.00	1973.83	1979.99	34.83	41.29
299	34.00	1973.84	1979.99	34.84	41.30
300	35.00	1973.85	1979.99	34.85	41.31
301	36.00	1973.86	1979.99	34.86	41.32
302	37.00	1973.87	1979.99	34.87	41.33
303	38.00	1973.88	1979.99	34.88	41.34
304	39.00	1973.89	1979.99	34.89	41.35
305	40.00	1973.90	1979.99	34.90	41.36
306	41.00	1973.91	1979.99	34.91	41.37
307	42.00	1973.92	1979.99	34.92	41.38
308	43.00	1973.93	1979.99	34.93	41.39
309	44.00	1973.94	1979.99	34.94	41.40
310	45.00	1973.95	1979.99	34.95	41.41
311	46.00	1973.96	1979.99	34.96	41.42
312	47.00	1973.97	1979.99	34.97	41.43
313	48.00	1973.98	1979.99	34.98	41.44
314	49.00	1973.99	1979.99	34.99	41.45
315	50.00	1974.00	1979.99	35.00	41.46
316	51.00	1974.01	1979.99	35.01	41.47
317	52.00	1974.02	1979.99	35.02	41.48
318	53.00	1974.03	1979.99	35.03	41.49
319	54.00	1974.04	1979.99	35.04	41.50
320	55.00	1974.05	1979.99	35.05	41.51
321	56.00	1974.06	1979.99	35.06	41.52
322	57.00	1974.07	1979.99	35.07	41.53
323	58.00	1974.08	1979.99	35.08	41.54
324	59.00	1974.09	1979.99	35.09	41.55
325	60.00	1974.10	1979.99	35.10	41.56
326	61.00	1974.11	1979.99	35.11	41.57
327	62.00	1974.12	1979.99	35.12	41.58
328	63.00	1974.13	1979.99	35.13	41.59
329	64.00	1974.14	1979.99	35.14	41.60
330	65.00	1974.15	1979.99	35.15	41.61
331	66.00	1974.16	1979.99	35.16	41.62
332	67.00	1974.17	1979.99	35.17	41.63
333	68.00	1974.18	1979.99	35.18	41.64
334	69.00	1974.19	1979.99	35.19	41.65
335	70.00	1974.20	1979.99	35.20	41.66
336	71.00	1974.21	1979.99	35.21	41.67
337	72.00	1974.22	1979.99	35.22	41.68
338	73.00	1974.23	1979.99	35.23	41.69
339	74.00	1974.24	1979.99	35.24	41.70
340	75.00	1974.25	1979.99	35.25	41.71
341	76.00	1974.26	1979.99	35.26	41.72
342	77.00	1974.27	1979.99	35.27	41.73
343	78.00	1974.28	1979.99	35.28	41.74
344	79.00	1974.29	1979.99	35.29	41.75
345	80.00	1974.30	1979.99	35.30	41.76
346	81.00	1974.31	1979.99	35.31	41.77
347	82.00	1974.32	1979.99	35.32	41.78
348	83.00	1974.33	1979.99	35.33	41.79
349	84.00	1974.34	1979.99	35.34	41.80
350	85.00	1974.35	1979.99	35.35	41.81
351	86.00	1974.36	1979.99	35.36	41.82
352	87.00	1974.37	1979.99	35.37	41.83
353	88.00	1974.38	1979.99	35.38	41.84
354	89.00	1974.39	1979.99	35.39	41.85
355	90.00	1974.40	1979.99	35.40	41.86
356	91.00	1974.41	1979.99	35.41	41.87
357	92.00	1974.42	1979.99	35.42	41.88
358	93.00	1974.43	1979.99	35.43	41.89
359	94.00	1974.44	1979.99	35.44	41.90
360	95.00	1974.45	1979.99	35.45	41.91
361	96.00	1974.46	1979.99	35.46	41.92
362	97.00	1974.47	1979.99	35.47	41.93
363	98.00	1974.48	1979.99	35.48	41.94
364	99.00	1974.49	1979.99	35.49	41.95
365	100.00	1974.50	1979.99	35.50	41.96

SUMMARY OF INFLOWS AND OUTFLOWS

CHANGING FROM THE SYSTEM INTO FIXED GRADE MODE

NODE LABEL	PIPE NUMBER	FLOWRATE 1990	MODE TITLE
AA	43	3120.60	Tank 5300
BB	229	1051.03	Tank 529
CC	337	3.89	Tank 7300
DD	339	314.81	Tank 7300
EE	642	444.13	Tank 734
FF	634	334.60	Tank 734
GG	660	392.56	Tank 7771
HH	614	1711.74	Tank 493
II	610	134.11	Tank 1210
JJ	323	334.11	Tank 1210
KK	426	1.40	Tank 1497
LL	210	917.25	Tank 10970
MM	314	1.80	Tank 70004

NET SYSTEM INFLOW = 14712.85
NET SYSTEM OUTFLOW = 159.99
NET SYSTEM DEMAND = 14552.87

CHANGES FOR NEXT SIMULATION

DEMAND CHANGE

PIPING TYPE = 1 - CIV - 6734

PIPE CHARACTER CHANGES

STATUS CODE	PI - CLOSED PIPE	PI - CLOSED PIPE	PI - CLOSED PIPE	PI - CLOSED PIPE	PI - CLOSED PIPE	PI - CLOSED PIPE	PI - CLOSED PIPE
	PI - CLOSED PIPE	PI - CLOSED PIPE	PI - CLOSED PIPE	PI - CLOSED PIPE	PI - CLOSED PIPE	PI - CLOSED PIPE	PI - CLOSED PIPE
PIPE NUMBER	PIPE NUMBER	PIPE NUMBER	PIPE NUMBER	PIPE NUMBER	PIPE NUMBER	PIPE NUMBER	PIPE NUMBER
824-PC	823	823	70.0	12.0	135.00	0.00	0.00
THE PUMP IDENTIFYING NUMBER (ID) = 0							
823-PC	823	823	70.0	12.0	135.00	0.00	0.00
THERE IS A PUMP IN LINE 823 DESCRIBED BY THE FOLLOWING DATA:							
HEAD	FLOWRATE						
(ft)	(gpm)						
175.00	0.00						
185.00	2100.00						
195.00	5000.00						
THE PUMP IDENTIFYING NUMBER (ID) = 13							
917-PC	823	821	70.0	12.0	135.00	0.00	0.00
THE PUMP IDENTIFYING NUMBER (ID) = 1							
918-PC	823	821	70.0	12.0	135.00	0.00	0.00
THERE IS A PUMP IN LINE 918 DESCRIBED BY THE FOLLOWING DATA:							
HEAD	FLOWRATE						
(ft)	(gpm)						
255.00	0.00						
195.00	3000.00						
120.00	7000.00						
THE PUMP IDENTIFYING NUMBER (ID) = 11							
601	333	330	70.0	12.0	135.00	0.00	0.00
820-PU	333	337	70.0	12.0	135.00	0.00	0.00
THE PUMP IDENTIFYING NUMBER (ID) = 0							
617	330	340	70.0	12.0	135.00	0.00	0.00
618	342	350	120.0	12.0	135.00	0.00	0.00
642	330	384	61.0	12.0	135.00	0.00	0.00
643-PU	330	6	69.0	12.0	135.00	0.00	0.00
818-PU	330	329	102.0	12.0	135.00	0.00	0.00
THE PUMP IDENTIFYING NUMBER (ID) = 10							

SIMULATION RESULTS

THE RESULTS ARE OBTAINED AFTER 11 TRIALS WITH AN ACCURACY OF 0.0013

SIMULATION DESCRIPTION LABEL

Simulation of Tank Filling

PIPELINE RESULTS

STATUS: CLOSING PIPE F3 - PLACED SPACE NODE F4 - PUMP LINE
 C4 - CHECK VALVE R4 - REGULATING VALVE T4 - ATTACH TANK

PIPE NUMBER	NODE NO.	FLOW RATE	HEAD LOSS	PUMP HEAD	PUMP LOSS	MINOR LOSS	LINE LOSS	VELOCITY	TIME
		1777	1777	1777	1777	1777	1777	1777	1777
1	1	5.13	1.01	3.00	0.00	0.00	0.00	0.00	0.00
2	2	10.26	2.02	6.00	0.00	0.00	0.00	0.00	0.00
3	3	15.39	3.03	9.00	0.00	0.00	0.00	0.00	0.00
4	4	20.52	4.04	12.00	0.00	0.00	0.00	0.00	0.00
5	5	25.65	5.05	15.00	0.00	0.00	0.00	0.00	0.00
6	6	30.78	6.06	18.00	0.00	0.00	0.00	0.00	0.00
7	7	35.91	7.07	21.00	0.00	0.00	0.00	0.00	0.00
8	8	41.04	8.08	24.00	0.00	0.00	0.00	0.00	0.00
9	9	46.17	9.09	27.00	0.00	0.00	0.00	0.00	0.00
10	10	51.30	10.10	30.00	0.00	0.00	0.00	0.00	0.00
11	11	56.43	11.11	33.00	0.00	0.00	0.00	0.00	0.00
12	12	61.56	12.12	36.00	0.00	0.00	0.00	0.00	0.00
13	13	66.69	13.13	39.00	0.00	0.00	0.00	0.00	0.00
14	14	71.82	14.14	42.00	0.00	0.00	0.00	0.00	0.00
15	15	76.95	15.15	45.00	0.00	0.00	0.00	0.00	0.00
16	16	82.08	16.16	48.00	0.00	0.00	0.00	0.00	0.00
17	17	87.21	17.17	51.00	0.00	0.00	0.00	0.00	0.00
18	18	92.34	18.18	54.00	0.00	0.00	0.00	0.00	0.00
19	19	97.47	19.19	57.00	0.00	0.00	0.00	0.00	0.00
20	20	102.60	20.20	60.00	0.00	0.00	0.00	0.00	0.00
21	21	107.73	21.21	63.00	0.00	0.00	0.00	0.00	0.00
22	22	112.86	22.22	66.00	0.00	0.00	0.00	0.00	0.00
23	23	117.99	23.23	69.00	0.00	0.00	0.00	0.00	0.00
24	24	123.12	24.24	72.00	0.00	0.00	0.00	0.00	0.00
25	25	128.25	25.25	75.00	0.00	0.00	0.00	0.00	0.00
26	26	133.38	26.26	78.00	0.00	0.00	0.00	0.00	0.00
27	27	138.51	27.27	81.00	0.00	0.00	0.00	0.00	0.00
28	28	143.64	28.28	84.00	0.00	0.00	0.00	0.00	0.00
29	29	148.77	29.29	87.00	0.00	0.00	0.00	0.00	0.00
30	30	153.90	30.30	90.00	0.00	0.00	0.00	0.00	0.00
31	31	159.03	31.31	93.00	0.00	0.00	0.00	0.00	0.00
32	32	164.16	32.32	96.00	0.00	0.00	0.00	0.00	0.00
33	33	169.29	33.33	99.00	0.00	0.00	0.00	0.00	0.00
34	34	174.42	34.34	102.00	0.00	0.00	0.00	0.00	0.00
35	35	179.55	35.35	105.00	0.00	0.00	0.00	0.00	0.00
36	36	184.68	36.36	108.00	0.00	0.00	0.00	0.00	0.00
37	37	189.81	37.37	111.00	0.00	0.00	0.00	0.00	0.00
38	38	194.94	38.38	114.00	0.00	0.00	0.00	0.00	0.00
39	39	200.07	39.39	117.00	0.00	0.00	0.00	0.00	0.00
40	40	205.20	40.40	120.00	0.00	0.00	0.00	0.00	0.00
41	41	210.33	41.41	123.00	0.00	0.00	0.00	0.00	0.00
42	42	215.46	42.42	126.00	0.00	0.00	0.00	0.00	0.00
43	43	220.59	43.43	129.00	0.00	0.00	0.00	0.00	0.00
44	44	225.72	44.44	132.00	0.00	0.00	0.00	0.00	0.00
45	45	230.85	45.45	135.00	0.00	0.00	0.00	0.00	0.00
46	46	235.98	46.46	138.00	0.00	0.00	0.00	0.00	0.00
47	47	241.11	47.47	141.00	0.00	0.00	0.00	0.00	0.00
48	48	246.24	48.48	144.00	0.00	0.00	0.00	0.00	0.00
49	49	251.37	49.49	147.00	0.00	0.00	0.00	0.00	0.00
50	50	256.50	50.50	150.00	0.00	0.00	0.00	0.00	0.00
51	51	261.63	51.51	153.00	0.00	0.00	0.00	0.00	0.00
52	52	266.76	52.52	156.00	0.00	0.00	0.00	0.00	0.00
53	53	271.89	53.53	159.00	0.00	0.00	0.00	0.00	0.00
54	54	277.02	54.54	162.00	0.00	0.00	0.00	0.00	0.00
55	55	282.15	55.55	165.00	0.00	0.00	0.00	0.00	0.00
56	56	287.28	56.56	168.00	0.00	0.00	0.00	0.00	0.00
57	57	292.41	57.57	171.00	0.00	0.00	0.00	0.00	0.00
58	58	297.54	58.58	174.00	0.00	0.00	0.00	0.00	0.00
59	59	302.67	59.59	177.00	0.00	0.00	0.00	0.00	0.00
60	60	307.80	60.60	180.00	0.00	0.00	0.00	0.00	0.00
61	61	312.93	61.61	183.00	0.00	0.00	0.00	0.00	0.00
62	62	318.06	62.62	186.00	0.00	0.00	0.00	0.00	0.00
63	63	323.19	63.63	189.00	0.00	0.00	0.00	0.00	0.00
64	64	328.32	64.64	192.00	0.00	0.00	0.00	0.00	0.00
65	65	333.45	65.65	195.00	0.00	0.00	0.00	0.00	0.00
66	66	338.58	66.66	198.00	0.00	0.00	0.00	0.00	0.00
67	67	343.71	67.67	201.00	0.00	0.00	0.00	0.00	0.00
68	68	348.84	68.68	204.00	0.00	0.00	0.00	0.00	0.00
69	69	353.97	69.69	207.00	0.00	0.00	0.00	0.00	0.00
70	70	359.10	70.70	210.00	0.00	0.00	0.00	0.00	0.00
71	71	364.23	71.71	213.00	0.00	0.00	0.00	0.00	0.00
72	72	369.36	72.72	216.00	0.00	0.00	0.00	0.00	0.00
73	73	374.49	73.73	219.00	0.00	0.00	0.00	0.00	0.00
74	74	379.62	74.74	222.00	0.00	0.00	0.00	0.00	0.00
75	75	384.75	75.75	225.00	0.00	0.00	0.00	0.00	0.00
76	76	389.88	76.76	228.00	0.00	0.00	0.00	0.00	0.00
77	77	395.01	77.77	231.00	0.00	0.00	0.00	0.00	0.00
78	78	400.14	78.78	234.00	0.00	0.00	0.00	0.00	0.00
79	79	405.27	79.79	237.00	0.00	0.00	0.00	0.00	0.00
80	80	410.40	80.80	240.00	0.00	0.00	0.00	0.00	0.00
81	81	415.53	81.81	243.00	0.00	0.00	0.00	0.00	0.00
82	82	420.66	82.82	246.00	0.00	0.00	0.00	0.00	0.00
83	83	425.79	83.83	249.00	0.00	0.00	0.00	0.00	0.00
84	84	430.92	84.84	252.00	0.00	0.00	0.00	0.00	0.00
85	85	436.05	85.85	255.00	0.00	0.00	0.00	0.00	0.00
86	86	441.18	86.86	258.00	0.00	0.00	0.00	0.00	0.00
87	87	446.31	87.87	261.00	0.00	0.00	0.00	0.00	0.00
88	88	451.44	88.88	264.00	0.00	0.00	0.00	0.00	0.00
89	89	456.57	89.89	267.00	0.00	0.00	0.00	0.00	0.00
90	90	461.70	90.90	270.00	0.00	0.00	0.00	0.00	0.00
91	91	466.83	91.91	273.00	0.00	0.00	0.00	0.00	0.00
92	92	471.96	92.92	276.00	0.00	0.00	0.00	0.00	0.00
93	93	477.09	93.93	279.00	0.00	0.00	0.00	0.00	0.00
94	94	482.22	94.94	282.00	0.00	0.00	0.00	0.00	0.00
95	95	487.35	95.95	285.00	0.00	0.00	0.00	0.00	0.00
96	96	492.48	96.96	288.00	0.00	0.00	0.00	0.00	0.00
97	97	497.61	97.97	291.00	0.00	0.00	0.00	0.00	0.00
98	98	502.74	98.98	294.00	0.00	0.00	0.00	0.00	0.00
99	99	507.87	99.99	297.00	0.00	0.00	0.00	0.00	0.00
100	100	513.00	100.00	300.00	0.00	0.00	0.00	0.00	0.00

90	71	124	-43	90	2 10	1 00	0 20	3 30	0 40
91	127	124	27	58	1 30	1 00	0 20	0 22	0 29
92	123	124	97	32	1 01	1 00	0 20	1 02	1 03
93	124	74	84	47	2 23	1 00	0 20	1 30	1 44
94	71	74	-156	63	0 63	1 00	0 20	1 80	4 04
95	74	77	-97	33	0 67	1 00	0 20	1 32	0 97
96	77	87	35	20	1 46	1 00	0 20	1 47	1 44
97	77	78	12	36	0 24	1 00	0 20	1 44	1 53
98	76	68	131	71	1 09	1 00	0 20	1 50	1 47
99	67	68	-12	64	2 12	1 00	0 20	1 42	1 21
100	64	67	83	75	2 67	1 00	0 20	1 05	1 45
101	64	67	71	63	1 22	1 00	0 20	2 02	2 21
102	64	64	-247	64	0 28	1 00	0 20	1 21	1 31
103	64	69	-74	62	1 01	1 00	0 20	1 09	1 22
104	67	67	770	99	0 01	1 00	0 20	1 21	2 67
105	67	67	-33	74	0 79	1 00	0 20	1 06	1 07
106	67	60	-351	98	0 51	1 00	0 20	1 21	1 71
107	67	60	-133	62	0 10	1 00	0 20	0 63	1 11
108	69	60	-14	72	3 69	0 80	0 20	1 90	1 79
109	69	67	-81	44	0 61	0 60	0 20	1 24	2 04
110	67	69	-44	73	0 31	0 60	0 20	0 90	2 45
111	67	69	-44	63	0 21	0 60	0 20	0 17	2 45
112	69	64	-216	13	2 16	0 20	0 20	0 45	0 39
113	64	63	-119	23	0 45	0 20	0 20	0 74	0 38
114	64	64	727	10	2 00	0 20	0 20	0 24	0 97
115	64	67	326	46	1 94	1 00	0 20	0 19	0 82
116	67	64	-1991	44	2 24	0 20	0 20	1 10	2 24
117	67	64	-170	62	0 63	1 00	0 20	1 10	0 81
118	67	62	-74	42	0 46	2 30	0 20	1 14	0 71
119	64	67	-1814	41	1 61	1 20	0 20	0 70	1 89
120	71	72	-79	97	0 74	1 30	0 20	0 51	0 20
121	72	67	-280	19	1 10	1 00	0 20	1 45	1 61
122	71	67	-1734	14	0 87	1 30	0 20	0 77	1 72
123	69	64	347	77	0 20	1 00	0 20	1 10	1 48
124	67	64	312	41	1 31	1 00	0 20	1 24	1 21
125	71	69	42	13	0 45	1 00	0 20	0 40	0 42
126	71	69	130	30	1 09	1 00	0 20	1 15	2 04
127	69	67	-103	40	1 93	1 00	0 20	1 17	1 19
128	70	74	-170	47	0 49	1 00	0 20	1 10	1 49
129	70	121	-276	10	1 37	1 00	0 20	1 10	0 30
130	77	122	-949	40	1 37	1 00	0 20	1 10	1 44
131	123	123	130	71	1 41	1 00	0 20	1 11	2 39
132	121	120	52	50	1 17	1 00	0 20	0 63	0 62
133	123	102	61	82	1 00	1 00	0 20	0 74	0 94
134	121	114	-219	72	0 04	1 11	0 20	1 48	2 07
135	116	103	-525	35	0 67	1 00	0 20	1 40	1 55
136	122	124	-74	79	1 07	1 00	0 20	1 40	1 14
137	129	121	-109	32	0 04	1 00	0 20	0 11	0 37
138	121	121	-107	70	1 00	1 00	0 20	1 11	1 27
139	127	79	99	71	2 17	1 00	0 20	0 44	0 61
140	79	87	-81	44	1 30	1 00	0 20	0 22	0 77
141	120	110	-447	51	7 41	1 41	0 20	1 81	7 11
142	127	87	-47	12	1 61	1 00	0 20	0 70	0 51
143	117	87	166	19	1 61	1 00	0 20	1 77	2 06
144	117	87	99	23	0 39	0 20	0 20	0 41	0 40
145	87	81	-77	44	1 00	1 00	0 20	0 40	1 10
146	87	70	169	11	1 40	2 00	0 20	1 70	0 76
147	81	82	-169	47	0 74	1 00	0 20	0 14	0 71
148	122	82	443	13	1 11	1 00	0 20	0 82	0 28
149	82	83	-74	44	1 00	1 00	0 20	0 69	0 17
150	120	83	116	49	1 11	1 00	0 20	1 13	1 00
151	84	83	10	40	1 00	1 00	0 20	1 12	0 81
152	84	84	79	41	1 00	1 00	0 20	1 16	1 10
153	84	84	-73	1	1 00	1 00	0 20	1 16	1 11
154	84	84	121	10	1 00	1 00	0 20	1 16	1 11
155	84	84	99	01	1 00	1 00	0 20	1 12	1 10
156	84	84	120	14	1 00	1 00	0 20	1 17	1 07
157	84	84	123	55	1 00	1 00	0 20	1 17	1 11
158	47	88	-114	93	1 00	1 00	0 20	1 44	1 11
159	87	124	-1523	01	3 00	0 20	0 20	2 40	1 13
160	88	87	-126	40	0 13	0 20	0 20	0 11	0 43
161	88	88	-8	41	0 20	0 20	0 20	0 12	0 42
162	123	88	109	10	1 10	0 20	0 20	1 71	1 71
163	88	81	110	11	1 10	0 20	0 20	1 36	1 92
164	84	81	382	72	1 09	0 20	0 20	0 40	0 32
165	84	81	-820	54	0 36	0 20	0 20	0 40	1 13
166	87	84	313	75	1 26	0 20	0 20	0 40	1 13
167	87	92	429	10	3 49	0 20	0 20	0 40	20 02
168	87	82	547	06	26 09	0 20	0 20	0 40	20 09
169	87	84	-181	79	0 02	0 20	0 20	0 40	11 03
170	92	142	-174	06	2 49	0 20	0 20	0 40	0 99
171	92	144	-655	14	4 64	0 20	0 20	0 40	0 88
172	94	95	448	40	1 01	0 20	0 20	1 79	1 97
173	98	110	-392	47	2 41	0 20	0 20	0 40	1 66
174	98	90	-131	10	0 28	0 20	0 20	0 40	1 61
175	97	157	-262	70	1 40	0 20	0 20	0 40	1 61
176	97	88	1018	13	1 05	0 20	0 20	0 76	1 70
177	98	123	1468	98	1 02	0 20	0 20	1 21	1 62
178	98	98	-401	21	1 71	0 20	0 20	1 27	1 67
179	107	84	120	60	1 38	1 00	0 20	1 41	1 68
180	99	154	-94	47	0 55	0 20	0 20	1 22	0 91
181	99	121	-475	10	0 41	1 00	0 20	1 12	1 74
182	107	102	-126	14	1 10	1 00	0 20	0 84	0 40

100	104	139	-09 20	1 90	0 90	0 00	1 01	1 67
101	105	140	-216 17	0 01	0 30	0 00	1 20	1 19
102	106	141	43 57	0 03	0 30	0 00	0 27	0 10
103	107	142	124 10	0 30	0 30	0 00	0 70	0 76
104	108	143	74 70	1 10	0 00	0 00	0 04	1 20
105	109	144	19 48	0 24	0 30	0 00	0 72	0 00
106	110	145	130 11	1 27	0 30	0 00	0 64	0 51
107	111	146	41 32	0 70	0 30	0 00	0 70	0 08
108	112	147	103 10	0 30	0 00	0 00	1 10	1 59
109	113	148	15 24	0 10	0 00	0 00	0 10	0 00
110	114	149	47 63	0 40	0 00	0 00	0 14	0 52
111	115	150	-136 44	0 21	0 00	0 00	0 09	0 93
112	116	151	62 67	0 33	0 00	0 00	0 07	0 12
113	117	152	30 60	0 10	0 00	0 00	0 43	0 10
114	118	153	202 65	1 13	0 00	0 00	0 10	0 10
115	119	154	99 37	0 04	0 00	0 00	0 43	0 24
116	120	155	312 74	0 22	0 00	0 00	0 10	0 10
117	121	156	-166 43	0 03	0 00	0 00	0 07	0 10
118	122	157	-000 20	1 73	0 00	0 00	1 00	1 10
119	123	158	-136 46	0 34	0 00	0 00	0 07	0 10
120	124	159	-233 04	0 28	0 00	0 00	0 07	0 10
121	125	160	24 22	0 16	0 00	0 00	0 00	0 17
122	126	161	-111 77	0 02	0 00	0 00	0 10	0 00
123	127	162	-64 03	0 30	0 00	0 00	0 10	0 00
124	128	163	171 07	0 00	0 00	0 00	1 11	1 00
125	129	164	-230 42	0 09	0 00	0 00	1 10	2 34
126	130	165	-02 76	0 10	0 00	0 00	0 00	0 10
127	131	166	47 70	0 07	0 00	0 00	0 10	0 10
128	132	167	14 00	0 10	0 00	0 00	0 10	0 10
129	133	168	114 57	0 33	0 00	0 00	0 10	0 10
130	134	169	49 10	0 03	0 00	0 00	0 10	0 10
131	135	170	24 00	0 01	0 00	0 00	0 10	0 10
132	136	171	-171 04	1 12	0 00	0 00	0 10	1 10
133	137	172	210 61	0 13	0 00	0 00	0 10	1 10
134	138	173	-132 01	1 10	0 00	0 00	0 10	1 10
135	139	174	-132 12	0 10	0 00	0 00	0 10	1 10
136	140	175	-231 02	0 10	0 00	0 00	0 10	1 10
137	141	176	-132 12	0 10	0 00	0 00	0 10	1 10
138	142	177	-132 12	0 10	0 00	0 00	0 10	1 10
139	143	178	-132 12	0 10	0 00	0 00	0 10	1 10
140	144	179	-132 12	0 10	0 00	0 00	0 10	1 10
141	145	180	-132 12	0 10	0 00	0 00	0 10	1 10
142	146	181	-132 12	0 10	0 00	0 00	0 10	1 10
143	147	182	-132 12	0 10	0 00	0 00	0 10	1 10
144	148	183	-132 12	0 10	0 00	0 00	0 10	1 10
145	149	184	-132 12	0 10	0 00	0 00	0 10	1 10
146	150	185	-132 12	0 10	0 00	0 00	0 10	1 10
147	151	186	-132 12	0 10	0 00	0 00	0 10	1 10
148	152	187	-132 12	0 10	0 00	0 00	0 10	1 10
149	153	188	-132 12	0 10	0 00	0 00	0 10	1 10
150	154	189	-132 12	0 10	0 00	0 00	0 10	1 10
151	155	190	-132 12	0 10	0 00	0 00	0 10	1 10
152	156	191	-132 12	0 10	0 00	0 00	0 10	1 10
153	157	192	-132 12	0 10	0 00	0 00	0 10	1 10
154	158	193	-132 12	0 10	0 00	0 00	0 10	1 10
155	159	194	-132 12	0 10	0 00	0 00	0 10	1 10
156	160	195	-132 12	0 10	0 00	0 00	0 10	1 10
157	161	196	-132 12	0 10	0 00	0 00	0 10	1 10
158	162	197	-132 12	0 10	0 00	0 00	0 10	1 10
159	163	198	-132 12	0 10	0 00	0 00	0 10	1 10
160	164	199	-132 12	0 10	0 00	0 00	0 10	1 10
161	165	200	-132 12	0 10	0 00	0 00	0 10	1 10
162	166	201	-132 12	0 10	0 00	0 00	0 10	1 10
163	167	202	-132 12	0 10	0 00	0 00	0 10	1 10
164	168	203	-132 12	0 10	0 00	0 00	0 10	1 10
165	169	204	-132 12	0 10	0 00	0 00	0 10	1 10
166	170	205	-132 12	0 10	0 00	0 00	0 10	1 10
167	171	206	-132 12	0 10	0 00	0 00	0 10	1 10
168	172	207	-132 12	0 10	0 00	0 00	0 10	1 10
169	173	208	-132 12	0 10	0 00	0 00	0 10	1 10
170	174	209	-132 12	0 10	0 00	0 00	0 10	1 10
171	175	210	-132 12	0 10	0 00	0 00	0 10	1 10
172	176	211	-132 12	0 10	0 00	0 00	0 10	1 10
173	177	212	-132 12	0 10	0 00	0 00	0 10	1 10
174	178	213	-132 12	0 10	0 00	0 00	0 10	1 10
175	179	214	-132 12	0 10	0 00	0 00	0 10	1 10
176	180	215	-132 12	0 10	0 00	0 00	0 10	1 10
177	181	216	-132 12	0 10	0 00	0 00	0 10	1 10
178	182	217	-132 12	0 10	0 00	0 00	0 10	1 10
179	183	218	-132 12	0 10	0 00	0 00	0 10	1 10
180	184	219	-132 12	0 10	0 00	0 00	0 10	1 10
181	185	220	-132 12	0 10	0 00	0 00	0 10	1 10

7 1 0

200	174	175	-140.36	0.06	0.00	0.01	1.59	3.01
201	173	174	-245.17	1.20	0.07	0.01	1.02	3.53
202	172	173	10.00	0.00	0.00	0.01	1.08	0.00
203	171	172	94.16	0.07	0.03	0.01	1.00	0.25
204	170	171	-110.10	1.19	0.00	0.01	1.37	1.00
205	169	170	-82.11	0.05	0.00	0.01	1.33	1.11
206	168	169	235.07	0.12	0.00	0.01	1.00	0.00
207	167	168	-843.60	3.16	0.00	0.01	2.19	1.00
208	166	167	-148.19	0.81	0.00	0.01	2.19	1.00
209	165	166	-74.14	0.19	0.00	0.01	2.06	1.00
210	164	165	-187.09	0.11	0.00	0.01	2.77	1.00
211	163	164	-1597.59	2.05	0.00	0.01	3.54	1.00
212	162	163	-1620.17	2.70	0.00	0.01	4.00	10.00
213	161	162	-167.00	0.10	0.00	0.01	1.00	1.01
214	160	161	-607.73	0.20	0.00	0.01	1.00	1.17
215	159	160	-626.76	0.00	0.00	0.01	1.70	1.74
216	158	159	948.23	1.00	0.00	0.01	2.00	3.74
217	157	158	-1324.94	1.00	0.00	0.01	2.00	4.13
218	156	157	-965.49	0.14	0.00	0.01	2.19	2.29
219	155	156	-1301.01	1.00	0.00	0.01	2.00	0.70
220	154	155	-1300.29	0.76	0.00	0.01	3.00	7.49
221	153	154	71.17	0.00	0.00	0.01	0.00	0.04
222	152	153	-201.49	1.27	0.00	0.01	1.72	3.00
223	151	152	-100.06	0.00	0.00	0.01	4.00	11.00
224	150	151	-240.11	0.04	0.00	0.01	5.17	10.47
225	149	150	-679.21	0.00	0.00	0.01	9.72	29.70
226	148	149	-3495.26	2.00	0.00	0.01	7.20	13.07
227	147	148	2020.00	0.00	0.00	0.01	4.00	4.74
228	146	147	-1474.00	2.25	0.00	0.01	2.19	1.10
229	145	146	-776.11	0.14	0.00	0.01	2.00	6.00
230	144	145	770.74	0.00	0.00	0.01	2.00	1.92
231	143	144	13.04	0.00	0.00	0.01	0.00	0.00
232	142	143	313.29	0.00	0.00	0.01	2.11	2.01
233	141	142	2.42	0.00	0.00	0.01	0.00	0.00
234	140	141	3.00	0.00	0.00	0.01	0.00	0.00
235	139	140	-40.53	0.10	0.00	0.01	0.00	0.00
236	138	139	249.02	1.11	0.00	0.01	0.00	1.01
237	137	138	130.00	0.00	0.00	0.01	0.00	0.00
238	136	137	100.00	0.00	0.00	0.01	1.01	1.10
239	135	136	14.10	0.00	0.00	0.01	0.00	0.00
240	134	135	143.42	0.00	0.00	0.01	0.00	1.00
241	133	134	143.17	0.00	0.00	0.01	0.00	0.00
242	132	133	21.10	0.00	0.00	0.01	0.00	0.00
243	131	132	140.00	0.00	0.00	0.01	0.00	1.00
244	130	131	130.15	0.10	0.00	0.01	0.00	0.00
245	129	130	51.14	0.10	0.00	0.01	0.00	0.00
246	128	129	-77.77	1.01	0.00	0.01	0.00	1.00
247	127	128	17.12	0.01	0.00	0.01	0.00	0.00
248	126	127	-344.42	1.10	0.00	0.01	1.00	1.10
249	125	126	-321.44	0.10	0.00	0.01	2.00	2.43
250	124	125	-243.75	1.00	0.00	0.01	1.00	1.10
251	123	124	10.00	0.01	0.00	0.01	0.00	0.00
252	122	123	-104.79	1.04	0.00	0.01	0.00	0.00
253	121	122	-117.67	1.04	0.00	0.01	0.00	0.00
254	120	121	-412.70	1.04	0.00	0.01	1.77	1.11
255	119	120	310.13	2.07	0.00	0.01	2.19	2.41
256	118	119	110.76	1.12	0.00	0.01	2.17	2.44
257	117	118	-97.07	1.00	0.00	0.01	0.00	0.00
258	116	117	267.25	2.06	0.00	0.01	2.06	2.39
259	115	116	-70.77	1.21	0.00	0.01	0.00	0.00
260	114	115	-83.60	1.07	0.00	0.01	1.04	0.00
261	113	114	224.09	2.07	0.00	0.01	2.19	2.41
262	112	113	300.11	3.42	0.00	0.01	2.00	3.42
263	111	112	450.20	3.04	0.00	0.01	2.19	4.00
264	110	111	-1511.12	4.70	0.00	0.01	2.23	2.50
265	109	110	-220.10	0.00	0.00	0.01	1.01	2.19
266	108	109	-143.23	0.01	0.00	0.01	0.00	0.00
267	107	108	78.01	0.00	0.00	0.01	0.00	1.01
268	106	107	43.76	0.01	0.00	0.01	0.00	0.00
269	105	106	-102.10	0.12	0.00	0.01	0.00	0.00
270	104	105	67.11	1.11	0.00	0.01	0.00	0.00
271	103	104	-40.78	1.11	0.00	0.01	0.00	0.00
272	102	103	-107.00	0.21	0.00	0.01	0.00	0.00
273	101	102	-132.00	0.00	0.00	0.01	0.00	0.00
274	100	101	00.00	1.10	0.00	0.01	1.01	1.10
275	99	100	0.00	0.00	0.00	0.01	0.00	0.00
276	98	99	-144.00	0.00	0.00	0.01	1.00	1.07
277	97	98	-142.78	1.10	0.00	0.01	2.00	2.10
278	96	97	0.00	0.00	0.00	0.01	1.07	0.00
279	95	96	-243.00	0.00	0.00	0.01	0.00	0.00
280	94	95	1044.00	0.00	0.00	0.01	1.00	4.17
281	93	94	240.72	1.00	0.00	0.01	1.00	2.10
282	92	93	1514.00	2.11	0.00	0.01	1.00	2.00
283	91	92	-404.00	0.00	0.00	0.01	1.01	0.00
284	90	91	1314.00	1.10	0.00	0.01	2.11	1.10
285	89	90	2919.00	3.10	0.00	0.01	0.00	0.00
286	88	89	-4001.47	0.17	0.00	0.01	0.00	0.00
287	87	88	07.00	1.00	0.00	0.01	0.00	0.00
288	86	87	294.00	0.20	0.00	0.01	0.00	0.00
289	85	86	-138.72	1.01	0.00	0.01	0.00	0.00
290	84	85	1100.00	0.75	0.00	0.01	1.00	0.00
291	83	84	943.00	0.10	0.00	0.01	1.00	0.00
292	82	83	918.15	1.76	0.00	0.01	1.00	0.00

367	264	264	-21.06	0.00	0.00	0.00	0.00	0.00
368	276	273	-19.46	0.02	0.00	0.00	0.00	0.00
369	274	266	-106.41	0.00	0.00	0.00	0.00	0.00
370	281	276	133.40	0.44	0.00	0.00	0.00	0.00
371	277	276	-92.52	0.26	0.00	0.00	0.00	0.00
372	277	257	223.37	0.81	0.00	0.00	0.00	0.00
373	257	258	141.70	1.35	0.00	0.00	0.00	0.00
374	259	284	3.41	0.07	0.00	0.00	0.00	0.00
375	277	281	-64.71	0.11	0.00	0.00	0.00	0.00
376	281	273	41.03	0.14	0.00	0.00	0.00	0.00
377	280	281	-106.36	0.11	0.00	0.00	0.00	0.00
378	281	278	83.47	0.81	0.00	0.00	0.00	0.00
379	281	274	-174.72	0.86	0.00	0.00	0.00	0.00
380	279	283	12.84	0.06	0.00	0.00	0.00	0.00
381	283	284	64.87	0.16	0.00	0.00	0.00	0.00
382	283	282	-74.91	0.29	0.00	0.00	0.00	0.00
383	278	279	13.46	0.21	0.00	0.00	0.00	0.00
384	282	281	-22.43	0.01	0.00	0.00	0.00	0.00
385	282	272	-61.50	0.36	0.00	0.00	0.00	0.00
386	274	273	-183.41	0.84	0.00	0.00	0.00	0.00
387	273	297	-228.01	0.77	0.00	0.00	0.00	0.00
388	272	271	-47.93	0.36	0.00	0.00	0.00	0.00
389	271	268	-24.17	0.18	0.00	0.00	0.00	0.00
390	271	270	-19.45	0.21	0.00	0.00	0.00	0.00
391	268	269	-12.18	0.04	0.00	0.00	0.00	0.00
392	270	269	-2.11	0.10	0.00	0.00	0.00	0.00
393	269	405	-26.11	0.07	0.00	0.00	0.00	0.00
394	404	405	-48.15	0.07	0.00	0.00	0.00	0.00
395	425	391	-71.20	0.09	0.00	0.00	0.00	0.00
396	432	265	-12.73	0.02	0.00	0.00	0.00	0.00
397	398	271	39.40	0.17	0.00	0.00	0.00	0.00
398	398	299	60.58	0.21	0.00	0.00	0.00	0.00
399	397	398	192.17	0.09	0.00	0.00	0.00	0.00
400	396	271	-20.43	0.09	0.00	0.00	0.00	0.00
401	396	396	-13.49	0.03	0.00	0.00	0.00	0.00
402	394	395	-41.41	0.27	0.00	0.00	0.00	0.00
403	396	399	-41.17	0.23	0.00	0.00	0.00	0.00
404	399	403	-10.19	0.02	0.00	0.00	0.00	0.00
405	402	404	-17.76	0.03	0.00	0.00	0.00	0.00
406	403	404	-37.39	0.04	0.00	0.00	0.00	0.00
407	403	402	-37.39	0.03	0.00	0.00	0.00	0.00
408	401	401	-19.53	0.04	0.00	0.00	0.00	0.00
409	401	402	-16.18	0.07	0.00	0.00	0.00	0.00
410	400	401	-10.14	0.19	0.00	0.00	0.00	0.00
411	400	399	-10.14	0.19	0.00	0.00	0.00	0.00
412	399	399	74.14	0.17	0.00	0.00	0.00	0.00
413	395	396	-19.44	0.04	0.00	0.00	0.00	0.00
414	395	393	96.09	0.21	0.00	0.00	0.00	0.00
415	393	394	-27.52	0.08	0.00	0.00	0.00	0.00
416	393	392	123.82	0.29	0.00	0.00	0.00	0.00
417	390	271	-22.11	0.04	0.00	0.00	0.00	0.00
418	395	392	-123.82	0.69	0.00	0.00	0.00	0.00
419	393	396	-68.07	0.07	0.00	0.00	0.00	0.00
420	396	399	-48.02	0.07	0.00	0.00	0.00	0.00
421	396	397	-2.87	0.07	0.00	0.00	0.00	0.00
422	394	396	12.00	0.02	0.00	0.00	0.00	0.00
423	394	391	-13.08	0.03	0.00	0.00	0.00	0.00
424	391	399	-13.08	0.02	0.00	0.00	0.00	0.00
425	394	393	3.07	0.02	0.00	0.00	0.00	0.00
426	397	392	-3.87	0.03	0.00	0.00	0.00	0.00
427	399	390	-68.07	0.01	0.00	0.00	0.00	0.00
428	392	391	-71.06	0.16	0.00	0.00	0.00	0.00
429	397	390	-6.79	0.02	0.00	0.00	0.00	0.00
430	394	205	64.47	0.02	0.00	0.00	0.00	0.00
431	393	286	110.07	0.79	0.00	0.00	0.00	0.00
432	391	384	-20.43	0.11	0.00	0.00	0.00	0.00
433	391	396	-4.61	0.11	0.00	0.00	0.00	0.00
434	391	391	-72.92	0.02	0.00	0.00	0.00	0.00
435	393	392	-74.09	0.74	0.00	0.00	0.00	0.00
436	392	395	-108.19	0.75	0.00	0.00	0.00	0.00
437	390	284	48.44	0.43	0.00	0.00	0.00	0.00
438	394	254	10.44	0.01	0.00	0.00	0.00	0.00
439	394	262	-1.29	0.02	0.00	0.00	0.00	0.00
440	393	237	-18.72	0.08	0.00	0.00	0.00	0.00
441	390	237	-18.72	0.02	0.00	0.00	0.00	0.00
442	397	239	-10.70	0.28	0.00	0.00	0.00	0.00
443	399	220	42.12	0.17	0.00	0.00	0.00	0.00
444	390	261	59.49	0.49	0.00	0.00	0.00	0.00
445	390	261	-14.17	0.04	0.00	0.00	0.00	0.00
446	391	282	-39.16	0.01	0.00	0.00	0.00	0.00
447	393	284	-28.78	0.11	0.00	0.00	0.00	0.00
448	397	287	-78.17	0.11	0.00	0.00	0.00	0.00
449	397	288	-74.89	0.44	0.00	0.00	0.00	0.00
450	218	255	-49.01	0.44	0.00	0.00	0.00	0.00
451	213	251	-38.79	0.03	0.00	0.00	0.00	0.00
452	211	280	10.46	0.10	0.00	0.00	0.00	0.00
453	211	280	-144.04	0.12	0.00	0.00	0.00	0.00
454	250	280	142.17	0.17	0.00	0.00	0.00	0.00
455	280	289	217.02	0.07	0.00	0.00	0.00	0.00
456	288	284	257.02	0.71	0.00	0.00	0.00	0.00
457	285	211	-128.25	0.10	0.00	0.00	0.00	0.00
458	285	209	2767.08	0.03	0.00	0.00	0.00	0.00
459	280	249	-2400.61	11.76	0.00	0.00	0.00	0.00
460	279	234	-6.74	0.01	0.00	0.00	0.00	0.00
461	253	224	-6.93	0.01	0.00	0.00	0.00	0.00

Keywords: child sexual abuse; disclosure; legal system

616-RK	344	345							
617	344	345	2092.10	0.24	0.00	0.00	0.93	10.70	
618	344	346	2096.70	11.63	0.00	0.00	0.92	10.80	
619	344	346	110.90	3.82	0.00	0.00	1.35	2.00	
620	344	347	01.10	0.00	0.00	0.00	0.26	0.00	
621	343	349	-106.99	2.93	0.00	0.00	2.22	1.23	
622	347	346	41.10	0.00	0.00	0.00	0.26	0.00	
623	348	349	0.66	0.00	0.00	0.00	0.00	0.00	
624	349	350	-110.12	0.00	0.00	0.00	1.10	1.20	
625	349	351	-171.23	0.00	0.00	0.00	1.00	1.37	
626	351	352	-74.75	0.00	0.00	0.00	0.44	0.00	
627	351	352	-90.90	0.00	0.00	0.00	0.00	1.10	
628	352	353	79.94	0.00	0.00	0.00	0.44	0.00	
629	353	354	60.76	0.00	0.00	0.00	0.00	1.20	
630	354	355	-162.14	0.00	0.00	0.00	0.00	0.00	
631	354	355	-137.72	0.00	0.00	0.00	0.00	0.00	
632	355	357	-141.70	0.00	0.00	0.00	0.00	0.00	
633	357	358	-218.11	2.15	0.00	0.00	2.01	4.28	
634	357	359	-173.34	0.00	0.00	0.00	1.11	1.01	
635	359	360	104.70	0.00	0.00	0.00	1.20	1.11	
636	360	361	477.40	0.00	0.00	0.00	1.00	3.53	
637	361	362	-172.60	0.00	0.00	0.00	1.10	1.60	
638	362	363	-179.20	0.00	0.00	0.00	1.10	1.60	
639-RK	361	363							
640	363	364	-495.24	0.00	0.00	0.00	0.00	1.00	
641	363	365	-444.31	0.00	0.00	0.00	0.00	1.00	
642	365	366	-308.04	0.00	0.00	0.00	0.00	1.00	
643-PC	366	367	1048.09	3.16	0.00	0.00	0.00	0.00	
644-PC	367	368	-3020.43	1.10	0.00	0.00	0.00	0.00	
645	368	369	370.32	0.00	0.00	0.00	0.00	0.00	
646	369	370	1441.11	0.00	0.00	0.00	0.00	0.00	
647-RV	370	371	131.47	0.00	0.00	0.00	0.00	0.00	
648	371	372	1430.64	0.00	0.00	0.00	0.00	0.00	
649	372	373	131.47	0.00	0.00	0.00	0.00	0.00	
650	373	374	09.04	0.00	0.00	0.00	0.00	0.00	
651	374	375	10.10	0.00	0.00	0.00	0.00	0.00	
652	375	376	7.93	0.00	0.00	0.00	0.00	0.00	
653	376	377	-12.09	0.00	0.00	0.00	0.00	0.00	
654	377	378	9.76	0.00	0.00	0.00	0.00	0.00	
655	378	379	-0.27	0.00	0.00	0.00	0.00	0.00	
656	379	380	9.40	0.00	0.00	0.00	0.00	0.00	
657	380	381	-2.61	0.00	0.00	0.00	0.00	0.00	
658	381	382	0.32	0.00	0.00	0.00	0.00	0.00	
659	382	383	-3.67	0.00	0.00	0.00	0.00	0.00	
660	383	384	1.27	0.00	0.00	0.00	0.00	0.00	
661	384	385	-13.07	0.00	0.00	0.00	0.00	0.00	
662	385	386	10.63	0.00	0.00	0.00	0.00	0.00	
663	386	387	-20.09	0.00	0.00	0.00	0.00	0.00	
664	387	388	3.00	0.00	0.00	0.00	0.00	0.00	
665	388	389	-1.00	0.00	0.00	0.00	0.00	0.00	
666	389	390	-85.17	0.00	0.00	0.00	0.00	0.00	
667	390	391	-70.90	0.00	0.00	0.00	0.00	0.00	
668	391	392	1310.10	2.71	0.00	0.00	0.00	0.00	
669-VI	392	393	1304.30	1.37	0.00	0.00	0.00	0.00	
670	393	394	-400.67	2.67	0.00	0.00	0.00	0.00	
671-PC	394	395	1717.05	0.43	0.00	0.00	0.00	0.00	
672-PC	395	396	1000.00	0.19	124.14	P1	0.00	2.71	
673-PC	396	397	700.00	1.04	124.97	P2	0.00	12.10	
674-PC	397	398	-4040.67	0.00	1.00		0.00	4.74	
675-PC	398	399	-4040.67	0.00	1.00		0.00	4.74	
676-PC	399	400	2000.10	0.00	1.00		0.00	4.74	
677-PC	400	401	1000.10	0.00	1.00		0.00	4.74	
678-PC	401	402	1000.10	0.00	1.00		0.00	4.74	
679-PC	402	403	1000.10	0.00	1.00		0.00	4.74	
680-PC	403	404	1000.10	0.00	1.00		0.00	4.74	
681-PC	404	405	1000.10	0.00	1.00		0.00	4.74	
682-PC	405	406	1000.10	0.00	1.00		0.00	4.74	
683-PC	406	407	1000.10	0.00	1.00		0.00	4.74	
684-PC	407	408	1000.10	0.00	1.00		0.00	4.74	
685-PC	408	409	1000.10	0.00	1.00		0.00	4.74	
686-PC	409	410	1000.10	0.00	1.00		0.00	4.74	
687-PC	410	411	1000.10	0.00	1.00		0.00	4.74	
688-PC	411	412	1000.10	0.00	1.00		0.00	4.74	
689-PC	412	413	1000.10	0.00	1.00		0.00	4.74	
690-PC	413	414	1000.10	0.00	1.00		0.00	4.74	
691-PC	414	415	1000.10	0.00	1.00		0.00	4.74	
692-PC	415	416	1000.10	0.00	1.00		0.00	4.74	
693-PC	416	417	1000.10	0.00	1.00		0.00	4.74	
694-PC	417	418	1000.10	0.00	1.00		0.00	4.74	
695-PC	418	419	1000.10	0.00	1.00		0.00	4.74	
696-PC	419	420	1000.10	0.00	1.00		0.00	4.74	
697-PC	420	421	1000.10	0.00	1.00		0.00	4.74	
698-PC	421	422	1000.10	0.00	1.00		0.00	4.74	
699-PC	422	423	1000.10	0.00	1.00		0.00	4.74	
700-PC	423	424	1000.10	0.00	1.00		0.00	4.74	
701-PC	424	425	1000.10	0.00	1.00		0.00	4.74	
702-PC	425	426	1000.10	0.00	1.00		0.00	4.74	
703-PC	426	427	1000.10	0.00	1.00		0.00	4.74	
704-PC	427	428	1000.10	0.00	1.00		0.00	4.74	
705-PC	428	429	1000.10	0.00	1.00		0.00	4.74	
706-PC	429	430	1000.10	0.00	1.00		0.00	4.74	
707-PC	430	431	1000.10	0.00	1.00		0.00	4.74	
708-PC	431	432	1000.10	0.00	1.00		0.00	4.74	
709-PC	432	433	1000.10	0.00	1.00		0.00	4.74	
710-PC	433	434	1000.10	0.00	1.00		0.00	4.74	
711-PC	434	435	1000.10	0.00	1.00		0.00	4.74	
712-PC	435	436	1000.10	0.00	1.00		0.00	4.74	
713-PC	436	437	1000.10	0.00	1.00		0.00	4.74	
714-PC	437	438	1000.10	0.00	1.00		0.00	4.74	
715-PC	438	439	1000.10	0.00	1.00		0.00	4.74	
716-PC	439	440	1000.10	0.00	1.00		0.00	4.74	
717-PC	440	441	1000.10	0.00	1.00		0.00	4.74	
718-PC	441	442	1000.10	0.00	1.00		0.00	4.74	
719-PC	442	443	1000.10	0.00	1.00		0.00	4.74	
720-PC	443	444	1000.10	0.00	1.00		0.00	4.74	
721-PC	444	445	1000.10	0.00	1.00		0.00	4.74	
722-PC	445	446	1000.10	0.00	1.00		0.00	4.74	
723-PC	446	447	1000.10	0.00	1.00		0.00	4.74	
724-PC	447	448	1000.10	0.00	1.00		0.00	4.74	
725-PC	448	449	1000.10	0.00	1.00		0.00	4.74	
726-PC	449	450	1000.10	0.00	1.00		0.00	4.74	
727-PC	450	451	1000.10	0.00	1.00		0.00	4.74	
728-PC	451	452	1000.10	0.00	1.00		0.00	4.74	
729-PC	452	453	1000.10	0.00	1.00		0.00	4.74	
730-PC	453	454	1000.10	0.00	1.00		0.00	4.74	
731-PC	454	455	1000.10	0.00	1.00		0.00	4.74	
732-PC	455	456	1000.10	0.00	1.00		0.00	4.74	
733-PC	456	457	1000.10	0.00	1.00		0.00	4.74	
734-PC	457	458	1000.10	0.00	1.00		0.00	4.74	
735-PC	458	459	1000.10	0.00	1.00		0.00	4.74	
736-PC	459	460	1000.10	0.00	1.00		0.00	4.74	
737-PC	460	461	1000.10	0.00	1.00		0.00	4.74	
738-PC	461	462	1000.10	0.00	1.00		0.00	4.74	
739-PC	462	463	1000.10	0.00	1.00		0.00	4.74	
740-PC	463	464	1000.10	0.00	1.00		0.00	4.74	
741-PC	464	465	1000.10	0.00	1.00		0.00	4.74	
742-PC	465	466	1000.10	0.00	1.00		0.00	4.74	
743-PC	466	467	1000.10	0.00	1.00		0.00	4.74	
744-PC	467	468	1000.10	0.00	1.00		0.00	4.74	
745-PC	468	469	1000.10	0.00	1.00		0.00	4.74	
746-PC	469	470	1000.10	0.00	1.00		0.00	4.74	
747-PC	470	471	1000.10	0.00	1.00		0.00	4.74	
748-PC	471	472	1000.10	0.00	1.00		0.00	4.74	
749-PC	472	473	1000.10	0.00	1.00		0.00	4.74	
750-PC	473	474	1000.10	0.00	1.00		0.00	4.74	
751-PC	474	475	1000.10	0.00	1.00		0.00	4.74	
752-PC	475	476	1000.10	0.00	1.00		0.00	4.74	
753-PC	476	477	1000.10	0.00	1.00		0.00	4.74	
754-PC	477	478	1000.10	0.00	1.00		0.00	4.74	
755-PC	478	479	1000.10	0.00	1.00		0.00	4.74	
756-PC	479	480	1000.10	0.00	1.00		0.00	4.74	
757-PC	480	481	1000.10						

13	2.62	3992.37	3992.00	92.37	40.23
14	1.60	3992.37	3992.00	94.37	40.89
15	0.20	3992.38	3992.00	94.38	40.92
16	0.42	3992.40	3992.00	97.40	42.22
17	0.00	3992.49	3992.00	97.40	42.21
18	9.04	3992.24	3992.00	97.24	41.27
19	2.60	3992.23	3992.00	97.23	41.27
20	5.32	3992.43	3992.00	97.43	42.23
21	3.72	3992.42	3992.00	97.42	42.22
22	13.17	3992.47	3992.00	97.47	43.10
23	7.76	3992.47	3992.00	97.47	42.24
24	44.31	3992.43	3992.00	97.43	42.21
25	14.77	3992.40	3992.00	97.40	42.21
26	0.20	3992.40	3992.00	97.40	42.44
27	0.00	3992.38	3992.00	94.38	40.89
28	1.60	3992.37	3992.00	94.37	40.90
29	0.00	3992.38	3992.00	94.38	43.06
30	0.00	3992.38	3992.00	94.38	43.06
31	0.00	3992.38	3992.00	94.38	44.37
32	0.00	3992.38	3992.00	94.38	43.06
33	0.00	3992.38	3992.00	94.38	43.06
34	0.00	3992.38	3992.00	94.38	43.06
35	0.00	3992.38	3992.00	94.38	43.06
36	0.00	3992.38	3992.00	94.38	43.06
37	0.00	3992.38	3992.00	94.38	43.06
38	0.00	3992.38	3992.00	94.38	43.06
39	0.00	3992.38	3992.00	94.38	43.06
40	0.00	3992.38	3992.00	94.38	43.06
41	0.00	3992.38	3992.00	94.38	43.06
42	0.00	3992.38	3992.00	94.38	43.06
43	0.00	3992.38	3992.00	94.38	43.06
44	0.00	3992.38	3992.00	94.38	43.06
45	0.00	3992.38	3992.00	94.38	43.06
46	0.00	3992.38	3992.00	94.38	43.06
47	0.00	3992.38	3992.00	94.38	43.06
48	0.00	3992.38	3992.00	94.38	43.06
49	0.00	3992.38	3992.00	94.38	43.06
50	0.00	3992.38	3992.00	94.38	43.06
51	0.00	3992.38	3992.00	94.38	43.06
52	0.00	3992.38	3992.00	94.38	43.06
53	0.00	3992.38	3992.00	94.38	43.06
54	0.00	3992.38	3992.00	94.38	43.06
55	0.00	3992.38	3992.00	94.38	43.06
56	0.00	3992.38	3992.00	94.38	43.06
57	0.00	3992.38	3992.00	94.38	43.06
58	0.00	3992.38	3992.00	94.38	43.06
59	0.00	3992.38	3992.00	94.38	43.06
60	0.00	3992.38	3992.00	94.38	43.06
61	0.00	3992.38	3992.00	94.38	43.06
62	0.00	3992.38	3992.00	94.38	43.06
63	0.00	3992.38	3992.00	94.38	43.06
64	0.00	3992.38	3992.00	94.38	43.06
65	0.00	3992.38	3992.00	94.38	43.06
66	0.00	3992.38	3992.00	94.38	43.06
67	0.00	3992.38	3992.00	94.38	43.06
68	0.00	3992.38	3992.00	94.38	43.06
69	0.00	3992.38	3992.00	94.38	43.06
70	0.00	3992.38	3992.00	94.38	43.06
71	0.00	3992.38	3992.00	94.38	43.06
72	0.00	3992.38	3992.00	94.38	43.06
73	0.00	3992.38	3992.00	94.38	43.06
74	0.00	3992.38	3992.00	94.38	43.06
75	0.00	3992.38	3992.00	94.38	43.06
76	0.00	3992.38	3992.00	94.38	43.06
77	0.00	3992.38	3992.00	94.38	43.06
78	0.00	3992.38	3992.00	94.38	43.06
79	0.00	3992.38	3992.00	94.38	43.06
80	0.00	3992.38	3992.00	94.38	43.06
81	0.00	3992.38	3992.00	94.38	43.06
82	0.00	3992.38	3992.00	94.38	43.06
83	0.00	3992.38	3992.00	94.38	43.06
84	0.00	3992.38	3992.00	94.38	43.06
85	0.00	3992.38	3992.00	94.38	43.06
86	0.00	3992.38	3992.00	94.38	43.06
87	0.00	3992.38	3992.00	94.38	43.06
88	0.00	3992.38	3992.00	94.38	43.06
89	0.00	3992.38	3992.00	94.38	43.06
90	0.00	3992.38	3992.00	94.38	43.06
91	0.00	3992.38	3992.00	94.38	43.06
92	0.00	3992.38	3992.00	94.38	43.06
93	0.00	3992.38	3992.00	94.38	43.06
94	0.00	3992.38	3992.00	94.38	43.06
95	0.00	3992.38	3992.00	94.38	43.06
96	0.00	3992.38	3992.00	94.38	43.06
97	0.00	3992.38	3992.00	94.38	43.06
98	0.00	3992.38	3992.00	94.38	43.06
99	0.00	3992.38	3992.00	94.38	43.06
100	0.00	3992.38	3992.00	94.38	43.06
101	0.00	3992.38	3992.00	94.38	43.06
102	0.00	3992.38	3992.00	94.38	43.06
103	0.00	3992.38	3992.00	94.38	43.06
104	0.00	3992.38	3992.00	94.38	43.06
105	0.00	3992.38	3992.00	94.38	43.06
106	0.00	3992.38	3992.00	94.38	43.06
107	0.00	3992.38	3992.00	94.38	43.06

112	16.77	4001.95	3078.00	125.95	63.71
113	1.54	4002.32	3080.00	127.32	63.65
114	0.30	4002.37	3080.00	127.37	63.63
115	8.22	4002.39	3080.00	127.39	63.64
116	2.70	4002.40	3081.00	127.40	63.61
117	4.30	4002.40	3079.00	127.40	63.64
118	0.00	4003.67	3083.00	127.67	62.39
119	3.63	4003.68	3083.00	127.68	62.31
120	0.00	4003.68	3083.00	127.68	62.39
121	3.10	4003.68	3083.00	127.68	62.31
122	1.46	4003.68	3083.00	127.68	62.31
123	4.75	4003.68	3083.00	127.68	62.31
124	4.28	4003.68	3083.00	127.68	62.31
125	61.62	4003.68	3083.00	127.68	62.31
126	7.04	4003.68	3083.00	127.68	62.31
127	7.99	4003.68	3083.00	127.68	62.31
128	1.60	4003.68	3083.00	127.68	62.31
129	1.88	4003.68	3083.00	127.68	62.31
130	7.00	4003.68	3083.00	127.68	62.31
131	0.70	4003.68	3083.00	127.68	62.31
132	0.42	4003.68	3083.00	127.68	62.31
133	0.00	4003.68	3083.00	127.68	62.31
134	0.04	4003.68	3083.00	127.68	62.31
135	4.42	4003.68	3083.00	127.68	62.31
136	8.00	4003.68	3083.00	127.68	62.31
137	2.00	4003.68	3083.00	127.68	62.31
138	2.00	4003.68	3083.00	127.68	62.31
139	2.00	4003.68	3083.00	127.68	62.31
140	226.24	4003.68	3083.00	127.68	62.31
141	3.61	4003.68	3083.00	127.68	62.31
142	65.62	4003.68	3083.00	127.68	62.31
143	12.16	4003.68	3083.00	127.68	62.31
144	3.30	4003.68	3083.00	127.68	62.31
145	2.13	4003.68	3083.00	127.68	62.31
146	0.60	4003.68	3083.00	127.68	62.31
147	0.00	4003.68	3083.00	127.68	62.31
148	0.00	4003.68	3083.00	127.68	62.31
149	2.94	4003.68	3083.00	127.68	62.31
150	0.00	4003.68	3083.00	127.68	62.31
151	0.00	4003.68	3083.00	127.68	62.31
152	0.42	4003.68	3083.00	127.68	62.31
153	7.00	4003.68	3083.00	127.68	62.31
154	7.99	4003.68	3083.00	127.68	62.31
155	8.64	4003.68	3083.00	127.68	62.31
156	2.03	4003.68	3083.00	127.68	62.31
157	104.99	4003.68	3083.00	127.68	62.31
158	73.08	4003.68	3083.00	127.68	62.31
159	89.08	4003.68	3083.00	127.68	62.31
160	0.00	4003.68	3083.00	127.68	62.31
161	44.31	4003.68	3083.00	127.68	62.31
162	3.00	4003.68	3083.00	127.68	62.31
163	10.10	4003.68	3083.00	127.68	62.31
164	46.41	4003.68	3083.00	127.68	62.31
165	0.00	4003.68	3083.00	127.68	62.31
166	0.00	4003.68	3083.00	127.68	62.31
167	1.00	4003.68	3083.00	127.68	62.31
168	1.00	4003.68	3083.00	127.68	62.31
169	0.04	4003.68	3083.00	127.68	62.31
170	0.00	4003.68	3083.00	127.68	62.31
171	7.00	4003.68	3083.00	127.68	62.31
172	10.04	4003.68	3083.00	127.68	62.31
173	0.01	4003.68	3083.00	127.68	62.31
174	3.72	4003.68	3083.00	127.68	62.31
175	0.02	4003.68	3083.00	127.68	62.31
176	3.00	4003.68	3083.00	127.68	62.31
177	292.74	4003.68	3083.00	127.68	62.31
178	1.03	4003.68	3083.00	127.68	62.31
179	2.10	4003.68	3083.00	127.68	62.31
180	1.00	4003.68	3083.00	127.68	62.31
181	3.10	4003.68	3083.00	127.68	62.31
182	45.16	4003.68	3083.00	127.68	62.31
183	0.04	4003.68	3083.00	127.68	62.31
184	1.40	4003.68	3083.00	127.68	62.31
185	1.40	4003.68	3083.00	127.68	62.31
186	2.00	4003.68	3083.00	127.68	62.31
187	5.60	4003.68	3083.00	127.68	62.31
188	0.00	4003.68	3083.00	127.68	62.31
189	0.00	4003.68	3083.00	127.68	62.31
190	0.00	4003.68	3083.00	127.68	62.31
191	1.10	4003.68	3083.00	127.68	62.31
192	4.30	4003.68	3083.00	127.68	62.31
193	0.00	4003.68	3083.00	127.68	62.31
194	0.00	4003.68	3083.00	127.68	62.31
195	0.00	4003.68	3083.00	127.68	62.31
196	59.84	4003.68	3083.00	127.68	62.31
197	0.00	4003.68	3083.00	127.68	62.31
198	50.38	4003.68	3083.00	127.68	62.31
199	59.84	4003.68	3083.00	127.68	62.31
200	20.55	4003.68	3083.00	127.68	62.31
201	0.00	4003.68	3083.00	127.68	62.31
202	2.13	4003.68	3083.00	127.68	62.31
203	6.10	4003.68	3083.00	127.68	62.31
204	794.42	4003.68	3083.00	127.68	62.31
205	2.04	4003.68	3083.00	127.68	62.31
206	4.43	4003.68	3083.00	127.68	62.31
207	4.43	4003.68	3083.00	127.68	62.31

211	C. 60	4001.30	3074.00	329.68	34.15
212	C. 42	4001.60	3078.00	327.40	33.29
213	C. 60	4003.60	3082.00	325.60	33.56
214	C. 60	4004.20	3083.00	321.20	34.28
215	T. 04	4026.20	3085.00	321.20	34.28
216	C. 00	4012.71	3085.00	327.71	35.34
217	C. 00	4010.00	3085.00	327.36	34.41
218	C. 60	4011.74	3081.00	327.34	34.62
219	C. 00	4011.04	3085.00	327.60	34.90
220	2.19	4030.15	3085.00	327.15	34.61
221	C. 00	4006.00	3085.00	327.00	34.10
222	C. 00	4007.90	3085.00	327.90	34.36
223	1.34	4005.38	3085.00	327.38	34.56
224	8.00	4005.74	3085.00	327.70	34.50
225	1.00	4005.00	3085.00	327.00	34.25
226	4.28	4006.14	3085.00	327.16	34.25
227	2.61	4004.68	3085.00	327.68	34.13
228	1.19	4007.73	3085.00	327.73	34.62
229	2.13	4008.01	3085.00	327.01	34.40
230	1.04	4010.20	3084.00	326.20	33.88
231	3.13	4010.20	3084.00	326.25	33.84
232	4.26	4004.05	3085.00	327.05	34.04
233	4.20	4004.05	3085.00	327.05	34.00
234	7.45	4006.93	3085.00	327.93	34.67
235	11.04	4007.65	3085.00	327.65	34.20
236	6.50	4006.83	3085.00	327.83	34.53
237	6.72	4003.42	3085.00	327.42	34.55
238	4.21	4003.40	3085.00	327.40	34.44
239	21.26	4003.70	3084.00	327.70	34.27
240	17.96	4006.22	3083.00	327.22	34.40
241	5.22	4006.21	3084.00	328.21	34.96
242	14.97	4006.05	3084.00	328.05	34.04
243	4.76	4005.86	3083.00	328.86	34.00
244	9.47	4004.94	3081.00	328.94	34.33
245	0.07	4007.34	3081.00	328.34	34.26
246	22.11	4007.94	3081.00	328.94	34.07
247	12.77	4008.76	3086.00	328.76	34.33
248	2.82	4009.33	3086.00	327.33	34.10
249	0.00	4010.66	3086.00	328.66	34.27
250	0.00	4009.21	3086.00	328.21	34.64
251	3.00	4009.21	3086.00	328.21	34.64
252	0.00	4009.21	3086.00	328.21	34.70
253	0.00	4009.21	3086.00	328.21	34.99
254	0.00	4009.21	3086.00	328.21	34.99
255	3.42	4009.25	3086.00	328.25	34.97
256	0.00	4009.25	3086.00	328.25	34.97
257	0.00	4009.25	3086.00	328.25	34.97
258	06.23	4009.74	3086.00	328.74	34.97
259	3.00	4010.23	3086.00	328.23	34.97
260	0.04	4011.04	3086.00	328.04	34.97
261	0.00	4010.14	3086.00	327.14	34.96
262	3.00	4010.23	3086.00	328.23	34.96
263	0.00	4010.23	3086.00	328.23	34.96
264	0.00	4010.23	3086.00	328.23	34.96
265	1.63	4010.23	3086.00	328.23	34.96
266	2.19	4010.23	3086.00	328.23	34.96
267	1.40	4010.21	3086.00	328.21	34.96
268	0.00	4010.21	3086.00	328.21	34.96
269	0.00	4010.21	3086.00	328.21	34.96
270	0.00	4010.21	3086.00	328.21	34.96
271	0.00	4010.21	3086.00	328.21	34.9

312	2.02	4023 25	3887 02	113 25	49.09
313	0.28	4023 96	3887.02	117.96	51.32
314	7.45	4023 13	3879 02	126.10	56.66
315	0 07	4020 00	3876.02	125 00	56.27
316	0 07	3899 00	3875.50	120 00	56.16
317	0.02	3899 05	3866.62	112 05	49.20
318	0 02	3879 39	3866 05	113 39	49.22
319	0 02	3879 37	3876 05	126 37	54.61
320	0 42	3879 16	3876 05	130 15	54.23
321	0 02	3889 16	3886 05	112 16	49 04
322	0 12	3889 23	3886 05	113 23	49 09
323	0 12	3889 07	3876.05	123 07	51.66
324	12 24	3889.07	3876.29	123 07	51.66
325	0 1.	3899 32	3886.30	112 32	49 53
326	17 02	3890 09	3886.00	112.00	49.92
327	16 09	3890 07	3876 30	123.07	51.56
328	4 26	3891 43	3886.30	93.43	60 05
329	0 11	3891.63	3810 30	83.63	26 26
330	4 26	3893 73	3810 30	83 73	36.29
331	10 44	4090 71	3810 30	101 75	39 63
332	10 44	4090 75	3810 30	103.75	39 63
333	17 03	4090 76	3840 60	163 76	66.63
334	0 00	3891.02	3866 00	26 02	13.41
335	0 00	3899 02	3866 00	11.02	5 16
336	0 00	4090 70	3866 00	100.70	66 07
337	0 00	4090 01	3866 00	152 01	46 24
338	0 00	4112 04	3866 00	152 04	46.30
339	437 12	4090 00	3866 00	143 00	51.26
340	0 25	3892 02	3866 00	13 42	8 38
341	0 20	4110 01	3876 00	1 07	57 66
342	0 00	4110 01	3876 00	113 07	67 32
343	0 00	4112 01	3896 00	125 01	52 01
344	0 00	4110 01	3896 00	112 01	51 76
345	0 00	4110 01	3896 00	120 01	52 10
346	5 05	4111 10	3896 00	121.10	52.51
347	3.32	4112 01	3896 00	152 01	46.24
348	2 10	4112 00	4000 00	113.00	48.36
349	0 00	4112 00	4000 00	157 07	46.79
350	16 77	4112 04	4000 00	106 06	48.31
351	42.73	4110 05	3896 00	122 06	53.28
352	04 60	4112 02	4000 00	86 02	39 00
353	2.32	4112 02	4000 00	81 02	46 66
354	2 43	4112 03	4000 00	81 03	31 11
355	1 10	4112 05	4000 00	91 05	41 50
356	44.31	4112 06	4000 00	80 00	30 39
357	4 00	4112 06	4000 00	70 06	14 14
358	0 00	4120 20	0 00	00 20	20 69
359	0 00	4114 24	4000 00	84 24	36 05
360	0 04	4120 30	4000 00	82 30	37 02
361	330 42	4120 30	4000 00	82 30	20 37
362	0 00	4120 01	4000 00	70 01	26 00
363	0 22	4120 05	4000 00	62 05	27 15
364	3 09	4120 07	4000 00	57 07	28 12
365	0 00	4120 00	4000 00	10 20	9 91
366	3 05	4090 44	4120 30	391 44	82 03
367	3 05	4090 40	4120 30	110 40	47 04
368	4 26	4090 36	4120 30	205 30	48 07
369	13 04	4090 33	4120 30	105 33	48 04
370	3 10	4090 30	4120 30	97 30	42 19
371	13 04	4090 33	4120 30	92 33	42 40
372	0 01	4090 33	4120 30	81 33	34 02
373	0 00	4090 33	4120 30	81 33	16 00
374	14 77	4090 32	4120 30	72 31	31 30
375	10 64	4090 31	4120 30	60 31	26 13
376	14 77	4090 31	4120 30	51 31	23 07
377	3 10	4090 31	4120 30	72 31	11 34
378	4 10	4090 31	4120 30	72 31	31 33
379	2 13	4090 31	4120 30	67 31	26 11
370	12 77	4090 31	4120 30	74 31	17 47
371	12 14	4090 32	4120 30	10 30	44 03
372	12 14	4090 32	4120 30	07 30	38 94
373	94 31	4090 32	3879.50	121 31	17 02
374	7 30	4090 31	3879.00	120 31	16 94
375	0 00	4090 30	3879 00	120 30	19 10
376	0 00	4090 31	3879 00	124 31	60 29
377	0 00	4090 30	3879 00	124 30	59 39
378	0 00	4090 31	3879 00	124 31	59 05
379	0 00	4090 30	3879 00	124 30	59 04
380	0 00	4090 31	3879 00	124 31	59 04
381	0 00	4090 30	3879 00	124 30	59 04
382	0 00	4090 31	3879 00	124 31	59 04
383	0 00	4090 30	3879 00	124 30	59 04
384	0 00	4090 31	3879 00	124 31	59 04
385	0 00	4090 30	3879 00	124 30	59 04
386	0 00	4090 31	3879 00	124 31	59 04
387	0 00	4090 30	3879 00	124 30	59 04
388	0 00	4090 31	3879 00	124 31	59 04
389	0 00	4090 30	3879 00	124 30	59 04
390	0 00	4090 31	3879 00	124 31	59 04
391	0 00	4090 30	3879 00	124 30	59 04
392	0 00	4090 31	3879 00	124 31	59 04
393	0 00	4090 30	3879 00	124 30	59 04
394	0 00	4090 31	3879 00	124 31	59 04
395	0 00	4090 30	3879 00	124 30	59 04
396	0 00	4090 31	3879 00	124 31	59 04
397	0 00	4090 30	3879 00	124 30	59 04
398	0 00	4090 31	3879 00	124 31	59 04
399	0 00	4090 30	3879 00	124 30	59 04
400	0 00	4090 31	3879 00	124 31	59 04
401	0 00	4090 30	3879 00	124 30	59 04
402	0 00	4090 31	3879 00	124 31	59 04
403	0 00	4090 30	3879 00	124 30	59 04
404	0 00	4090 31	3879 00	124 31	59 04
405	0 00	4090 30	3879 00	124 30	59 04
406	0 00	4090 31	3879 00	124 31	59 04
407	0 00	4090 30	3879 00	124 30	59 04
408	0 00	4090 31	3879 00	124 31	59 04
409	0 00	4090 30	3879 00	124 30	59 04
410	0 00	4090 31	3879 00	124 31	59 04

FAA:470 AND NIKKUN 428

SECTION NUMBER	MAXIMUM PRESSURE (psia)	JUNCTION NUMBER	MINIMUM PRESSURE (psia)
510	60.69	522	7.78
418	64.69	333	8.16
143	67.63	330	8.36
427	61.69	120	8.23
524	60.19	504	7.83

2025 NUMBER	MATTHEW ML/1000 (11/11)	2025 NUMBER	MATTHEW ML/1000 (11/11)
020	02 30	121	0.00
090	34 08	090	1 00
111	29.70	023	1 00
167	20.33	000	0.00
200	26.0	037	0.00

RY	VALVE	POSITION	CONTROLLED	VALVE	VALVE	SYSTEM	DOWN	THROUGH
LABEL	TYPE	DN/IN	PIPE	SETTING	STATUS	GRADE	GRADE	PLANE
				(22 OF 99)		(21)	(21)	(99)
81	REV-1	264	607	4250.00	INJECTED	4292.06	4260.00	111.67

- 1. INFLOWS INTO THE SYSTEM FROM FIXED GRASS NODES
- 2. OUTFLOWS FROM THE SYSTEM INTO FIXED GRASS NODES

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NET SYSTEM INFLOW - 192:7.78
NET SYSTEM OUTFLOW - 199:4.92
NET SYSTEM DEMAND - 74:0.79

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REFUGEE TYPE - 1 - CDF - 1.753

STATUS: CLOS RK - CLOSED PIPE M - FIXED CHASE NOSE PU - PUMP LINE
C1 - CHECK VALVE RV - REGULATING VALVE

PIPE NUMBER	BOOK NOS P. 91	LENGTH (ft.)	DIAMETER (in.)	SPRINKLER COUNT	WATER LOSS COUNT	PER. VOL (%)
020-CRPI	010 364	70.5	10.6	131 60	0 00	0.00
THE PUMP IDENTIFYING NUMBER IS 5						

229-KMFC 129 0 32.0 12.0 129.02 0.00 2094.00
 014-KMFC 01 0 72.0 12.0 120.02 0.73 1992.00
 023-PV 023 024 72.0 12.0 120.02 0.00 0.00
 THE PUMP IDENTIFYING NUMBER (ID) = 12
 010-FV 010 021 72.0 12.0 120.02 0.00 0.00
 THE PUMP IDENTIFYING NUMBER (ID) = 12
 020-KMFC 020 020 12.0 12.0 120.02 0.00 0.00
 THE PUMP IDENTIFYING NUMBER (ID) = 0

 SIMULATION RESULTS

THE RESULTS ARE OBTAINED AFTER 4 TRIALS WITH AN ACCURACY OF 0.0001

SIMULATION DESCRIPTION (LABEL)

Simulating Late Evening / Early Morning Hours
 Assuming Tank 7775 is Full. Pumps 014, 010 are off
 Tanks 123 and 442 are Full

PIPELINE RESULTS

STATION CODE	PIPE NUMBER		TYPE	FLOW RATE	HEAD LOSS	PUMP HEAD	MINOR LOSS	LINE LOSS	VEL
	01	02		(gpm)	(ft)	(ft)	(ft)	(ft/100)	(ft/100)
1	1	2		27.41	0.04	1.33	0.03	0.23	0.24
2	2	3		30.43	0.24	1.00	0.03	0.30	0.10
3	3	4		7.70	0.03	1.00	0.03	0.03	0.03
4	4	5		-19.40	1.00	1.00	0.03	0.22	0.22
5	5	6		-32.22	0.30	1.00	0.03	0.24	0.10
6	6	7		42.16	1.30	1.00	0.03	0.47	0.22
7	7	8		-102.10	0.29	1.00	0.03	1.30	1.15
8	8	9		10.41	0.03	1.00	0.03	0.59	0.04
9	9	10		-2.72	0.00	0.00	0.00	0.02	0.20
10	10	11		10.37	0.02	1.00	0.00	0.16	0.20
11	11	12		10.20	0.02	0.00	0.00	0.21	0.20
12	12	13		-12.90	1.01	1.00	0.00	0.10	0.35
13	13	14		22.03	0.25	1.00	0.00	0.26	0.13
14	14	15		-31.26	0.04	1.00	0.00	0.19	0.13
15	15	16		-71.27	1.00	1.00	0.00	0.01	0.00
16	16	17		-69.40	1.00	1.00	0.00	0.79	0.27
17	17	18		101.86	1.33	1.00	0.00	1.35	1.16
18	18	19		22.21	1.00	1.00	0.00	0.26	0.07
19	19	20		109.50	0.01	1.00	0.00	1.25	1.30
20	20	21		09.40	0.70	1.00	0.00	1.01	1.07
21	21	22		-112.00	0.00	0.00	0.00	0.74	0.40
22	22	23		115.00	2.00	0.00	0.00	0.76	0.30
23	23	24		02.90	0.00	0.00	0.00	0.03	0.30
24	24	25		100.00	1.00	0.00	0.00	1.27	1.01
25	25	26		-00.20	0.02	0.00	0.00	0.37	0.20
26	26	27		-61.25	2.00	0.00	0.00	0.23	0.15
27	27	28		-200.00	0.01	0.00	0.00	0.73	0.20
28	28	29		-62.00	0.21	0.00	0.00	0.31	0.10
29	29	30		-66.33	0.02	0.00	0.00	0.42	0.20
30	30	31		-00.72	0.26	0.00	0.00	0.17	0.10
31	31	32		16.24	0.04	0.00	0.00	0.11	0.17
32	32	33		15.70	0.10	0.00	0.00	0.41	0.30
33	33	34		-10.23	0.10	0.00	0.00	0.13	0.10
34	34	35		07.06	0.24	0.00	0.00	0.65	0.70
35	35	36		-107.23	0.10	0.00	0.00	1.11	0.34
36	36	37		00.00	0.20	0.00	0.00	0.70	1.02
37	37	38		16.00	0.01	0.00	0.00	0.40	0.12
38	38	39		10.01	0.02	0.00	0.00	0.11	0.01
39	39	40		-10.07	0.11	0.00	0.00	0.03	0.00
40	40	41		127.14	0.00	0.00	0.00	0.72	0.31
41	41	42		-112.27	0.10	0.00	0.00	1.07	1.20
42-75	42	75		2023.37	1.36	0.00	0.00	0.75	0.71
75	75	76		-035.03	0.10	0.00	0.00	1.34	0.54
76	76	77		-02.69	1.07	0.00	0.00	1.04	1.01
77	77	78		-176.52	0.20	0.00	0.00	0.72	0.40
78	78	79		-107.24	0.24	0.00	0.00	1.11	0.40
79	79	80		-009.44	0.73	0.00	0.00	1.00	0.00
80	80	81		02.38	0.04	0.00	0.00	0.24	0.11
81	81	82		06.03	0.10	0.00	0.00	0.41	0.17
82	82	83		09.36	0.20	0.00	0.00	0.74	0.27
83	83	84		01.00	0.00	0.00	0.00	0.10	0.00
84	84	85		-123.40	0.43	0.00	0.00	1.11	0.24
85	85	86		00.01	0.00	0.00	0.00	0.40	0.40
86	86	87		175.41	0.27	0.00	0.00	1.11	0.70
87	87	88		-1147.74	0.64	0.00	0.00	0.00	0.20
88	88	89		100.46	0.12	0.00	0.00	1.20	0.00
89	89	90		270.04	0.31	0.00	0.00	1.11	0.40
90	90	91		-00.00	0.11	0.00	0.00	0.63	0.30
91	91	92		-130.43	0.46	0.00	0.00	1.00	1.00
92	92	93		000.77	0.43	0.00	0.00	1.14	0.01

43	40	30	-40.76	3.60	0.00	0.00	0.00	0.00
44	39	30	-310.63	3.20	0.00	0.00	0.00	0.00
45	38	37	-310.79	2.32	0.00	0.00	0.00	0.00
46	36	37	-340.74	2.34	0.00	0.00	0.00	0.00
47	36	30	-146.71	4.92	0.00	0.00	0.00	0.00
48	36	34	-170.31	1.41	0.00	0.00	0.00	0.00
49	32	31	-117.66	4.64	0.00	0.00	0.00	0.00
50	31	39	-2077.61	4.33	0.00	0.00	0.00	0.00
51	32	60	-119.10	3.79	0.00	0.00	0.00	0.00
52	30	40	-162.79	2.79	0.00	0.00	0.00	0.00
53	47	44	-341.57	0.92	0.00	0.00	0.00	0.00
54	46	44	-296.24	1.74	0.00	0.00	0.00	0.00
55	46	47	-349.20	1.66	0.00	0.00	0.00	0.00
56	44	63	-154.63	0.10	0.00	0.00	0.00	0.00
57	41	46	-350.25	7.03	0.00	0.00	0.00	0.00
58	74	74	-17.01	1.13	0.00	0.00	0.00	0.00
59	74	40	-17.01	1.00	0.00	0.00	0.00	0.00
60	40	40	-109.51	1.37	0.00	0.00	0.00	0.00
61	43	40	-72.05	1.17	0.00	0.00	0.00	0.00
62	44	67	-40.77	1.07	0.00	0.00	0.00	0.00
63	40	46	-105.95	0.24	0.00	0.00	0.00	0.00
64	44	47	-23.10	1.01	0.00	0.00	0.00	0.00
65	47	46	-446.17	1.01	0.00	0.00	0.00	0.00
66	46	67	-418.71	1.00	0.00	0.00	0.00	0.00
67	46	71	-89.69	1.99	0.00	0.00	0.00	0.00
68	71	74	-229.00	1.29	0.00	0.00	0.00	0.00
69	71	124	-113.25	0.04	0.00	0.00	0.00	0.00
70	75	124	-90.06	0.87	0.00	0.00	0.00	0.00
71	127	124	-107.12	7.81	0.00	0.00	0.00	0.00
72	127	124	-121.24	1.22	0.00	0.00	0.00	0.00
73	121	70	-61.14	1.13	0.00	0.00	0.00	0.00
74	75	76	-113.10	2.49	0.00	0.00	0.00	0.00
75	74	77	-91.76	0.69	0.00	0.00	0.00	0.00
76	77	67	-148.09	1.88	0.00	0.00	0.00	0.00
77	77	70	-60.81	1.10	0.00	0.00	0.00	0.00
78	70	60	-305.49	1.22	0.00	0.00	0.00	0.00
79	67	60	-321.40	0.49	0.00	0.00	0.00	0.00
80	64	63	-19.94	0.17	0.00	0.00	0.00	0.00
81	60	61	-170.37	0.33	0.00	0.00	0.00	0.00
82	60	69	-73.60	0.00	0.00	0.00	0.00	0.00
83	69	69	-10.71	0.15	0.00	0.00	0.00	0.00
84	63	61	-291.64	0.16	0.00	0.00	0.00	0.00
85	61	62	-29.30	0.09	0.00	0.00	0.00	0.00
86	61	60	-2.1.99	0.17	0.00	0.00	0.00	0.00
87	60	60	-123.47	0.10	0.00	0.00	0.00	0.00
88	60	60	-47.83	0.31	0.00	0.00	0.00	0.00
89	60	67	-120.73	0.82	0.00	0.00	0.00	0.00
90	67	49	-98.24	0.38	0.00	0.00	0.00	0.00
91	67	49	-98.24	0.38	0.00	0.00	0.00	0.00
92	69	60	-10.60	0.06	0.00	0.00	0.00	0.00
93	60	69	-190.41	1.10	0.00	0.00	0.00	0.00
94	60	66	-247.13	1.17	0.00	0.00	0.00	0.00
95	60	60	-318.40	1.00	0.00	0.00	0.00	0.00
96	61	64	-1077.91	4.42	0.00	0.00	0.00	0.00
97	61	64	-207.04	1.24	0.00	0.00	0.00	0.00
98	61	72	-257.04	1.69	0.00	0.00	0.00	0.00
99	64	71	-162.07	2.79	0.00	0.00	0.00	0.00
100	71	72	-112.94	0.10	0.00	0.00	0.00	0.00
101	71	67	-370.30	1.94	0.00	0.00	0.00	0.00
102	71	67	-1807.63	1.71	0.00	0.00	0.00	0.00
103	67	67	-72.77	2.24	0.00	0.00	0.00	0.00
104	67	67	-142.00	0.41	0.00	0.00	0.00	0.00
105	67	67	-40.37	0.51	0.00	0.00	0.00	0.00
106	70	69	-10.67	0.10	0.00	0.00	0.00	0.00
107	70	63	-80.03	1.32	0.00	0.00	0.00	0.00
108	69	62	-119.33	0.31	0.00	0.00	0.00	0.00
109	70	71	-171.12	0.76	0.00	0.00	0.00	0.00
110	71	127	-344.49	0.69	0.00	0.00	0.00	0.00
111	121	121	-20.00	0.37	0.00	0.00	0.00	0.00
112	123	124	-74.16	2.34	0.00	0.00	0.00	0.00
113	127	126	-46.62	1.40	0.00	0.00	0.00	0.00
114	126	126	-192.20	7.66	0.00	0.00	0.00	0.00
115	126	123	-409.19	2.63	0.00	0.00	0.00	0.00
116	122	126	-418.97	0.41	0.00	0.00	0.00	0.00
117	129	121	-627.62	2.06	0.00	0.00	0.00	0.00
118	121	120	-72.20	0.92	0.00	0.00	0.00	0.00
119	120	70	-106.00	0.53	0.00	0.00	0.00	0.00
120	70	60	-64.53	0.37	0.00	0.00	0.00	0.00
121	120	119	-106.12	1.51	0.00	0.00	0.00	0.00
122	120	60	-72.24	1.90	0.00	0.00	0.00	0.00
123	117	60	-21.87	0.04	0.00	0.00	0.00	0.00
124	117	61	-63.97	0.77	0.00	0.00	0.00	0.00
125	60	61	-72.71	1.74	0.00	0.00	0.00	0.00
126	61	72	-81.24	0.17	0.00	0.00	0.00	0.00
127	61	62	-64.96	0.20	0.00	0.00	0.00	0.00
128	112	62	-278.67	0.00	0.00	0.00	0.00	0.00
129	62	64	-147.34	0.33	0.00	0.00	0.00	0.00
130	100	61	-64.57	0.70	0.00	0.00	0.00	0.00
131	64	61	-198.43	0.83	0.00	0.00	0.00	0.00
132	64	61	-170.68	0.65	0.00	0.00	0.00	0.00
133	65	64	-124.33	1.43	0.00	0.00	0.00	0.00
134	107	64	-77.05	0.07	0.00	0.00	0.00	0.00
135	102	61	-110.10	1.22	0.00	0.00	0.00	0.00
136	102	66	-148.07	0.55	0.00	0.00	0.00	0.00
137	66	60	-44.14	0.76	0.00	0.00	0.00	0.00
138	66	60	-127.84	0.26	0.00	0.00	0.00	0.00
139	67	60	-1979.90	1.21	0.00	0.00	0.00	0.00
140	64	69	-63.10	0.53	0.00	0.00	0.00	0.00

162	161	95	311 31	1 50	0 00	0 00	1 99	2 24
163	89	95	-122 99	2 93	6 05	0 00	1 39	1 64
164	94	95	385 12	1 74	0 00	0 00	3 48	3 48
165	97	140	-794 35	2 36	0 00	0 00	1 64	0 84
166	91	95	224 47	1 27	0 00	0 00	1 20	2 34
167	95	92	401 44	27 47	1 00	0 00	4 65	29 03
168	93	92	847 03	31 39	0 00	0 00	6 21	21 09
169	91	94	-184 05	1 31	0 00	0 00	2 11	3 54
170	91	162	-271 72	1 46	0 00	0 00	4 26	13 01
171	94	149	-624 68	4 03	0 00	0 00	1 18	0 96
172	94	94	448 62	1 45	0 00	0 00	2 99	4 03
173	94	160	-278 14	1 46	0 00	0 00	1 70	1 00
174	94	98	-232 62	9 29	0 00	0 00	0 89	1 91
175	97	157	-289 24	1 42	0 00	0 00	1 45	1 41
176	97	98	1038 43	9 04	0 00	0 00	6 43	23 04
177	98	107	3278 36	7 90	0 00	0 00	2 87	5 32
178	98	94	-474 46	3 74	0 00	0 00	3 34	4 98
179	100	99	123 21	1 38	0 00	0 00	1 42	1 70
180	99	134	-84 94	1 52	0 00	0 00	0 39	0 87
181	99	100	-267 35	1 43	0 00	0 00	1 71	1 71
182	100	115	-129 04	1 17	0 00	0 00	0 47	0 65
183	101	170	137 42	1 11	0 00	0 00	1 50	2 02
184	101	102	225 63	0 16	0 00	0 00	0 00	0 02
185	101	153	-743 47	3 28	0 00	0 00	1 68	1 68
186	103	104	1024 08	1 45	0 00	0 00	2 22	1 44
187	103	104	914 36	0 14	0 00	0 00	1 91	1 80
188	105	112	-1114 76	2 00	0 00	0 00	2 32	3 87
189	105	139	-40 36	1 84	0 00	0 00	0 00	1 71
190	109	132	-212 39	9 78	0 00	0 00	0 36	1 11
191	107	106	64 70	1 04	0 00	0 00	0 39	0 25
192	110	120	212 23	1 34	0 00	0 00	0 76	0 70
193	110	107	70 34	1 13	0 00	0 00	0 66	1 26
194	110	137	43 39	1 13	0 00	0 00	0 38	0 36
195	107	107	113 54	1 31	0 00	0 00	0 37	0 44
196	117	100	60 72	1 75	0 00	0 00	0 04	0 02
197	109	100	146 40	1 26	0 00	0 00	1 04	1 85
198	110	117	20 38	0 22	0 00	0 00	0 33	0 01
199	116	109	48 65	0 50	0 00	0 00	0 33	0 54
200	109	120	-123 76	0 17	0 00	0 00	0 70	0 73
201	118	130	49 02	0 03	0 00	0 00	0 40	0 14
202	118	110	41 18	0 17	0 00	0 00	0 37	0 40
203	110	110	-61 43	0 03	0 00	0 00	0 12	0 14
204	114	118	111 64	0 07	0 00	0 00	0 46	0 17
205	114	111	171 41	0 25	0 00	0 00	0 70	0 38
206	112	111	-279 05	0 08	0 00	0 00	1 14	0 05
207	112	110	-1121 38	2 63	0 00	0 00	2 33	1 61
208	111	113	-162 97	0 45	0 00	0 00	1 33	0 71
209	114	113	-281 05	0 40	0 00	0 00	1 15	0 94
210	113	112	91 28	0 10	0 00	0 00	0 23	0 11
211	113	114	-174 28	0 11	0 00	0 00	1 13	1 42
212	114	112	-10 69	0 08	0 00	0 00	0 26	0 09
213	112	113	107 67	0 39	0 00	0 00	1 15	1 52
214	112	109	-214 79	0 94	0 00	0 00	1 40	0 18
215	113	111	-121 46	0 18	0 00	0 00	0 70	0 73
216	115	114	135 58	0 19	0 00	0 00	0 07	0 09
217	111	112	-4 18	0 21	0 00	0 00	0 37	0 01
218	110	111	110 01	0 16	0 00	0 00	0 74	0 07
219	110	114	30 38	0 32	0 00	0 00	0 34	0 33
220	114	115	147 61	0 13	0 00	0 00	0 94	1 04
221	110	110	-153 19	0 07	0 00	0 00	0 96	1 32
222	114	117	98 04	0 90	0 00	0 00	1 02	1 70
223	114	110	-227 41	1 47	0 00	0 00	1 32	1 94
224	119	117	-1307 63	3 99	0 00	0 00	2 72	2 11
225	119	116	-215 20	2 90	0 00	0 00	1 37	2 10
226	119	119	30 74	0 04	0 00	0 00	0 10	0 05
227	119	118	-744 19	2 79	0 00	0 00	2 17	2 11
228	114	113	-135 20	0 01	0 00	0 00	0 30	0 13
229-KXPG	114	110						
230	118	117	67 67	0 34	0 00	0 00	0 33	0 68
231	117	111	-57 65	0 02	0 00	0 00	0 65	0 74
232	140	141	-79 02	0 31	0 00	0 00	0 90	1 38
233	140	123	-144 02	0 45	0 00	0 00	0 60	0 23
234	123	124	-148 14	0 19	0 00	0 00	0 61	0 29
235	124	123	-339 11	1 10	0 00	0 00	1 39	1 34
236	130	131	170 93	0 29	0 00	0 00	0 70	0 39
237	171	141	254 71	1 37	0 00	0 00	1 04	3 01
238	171	141	254 71	1 37	0 00	0 00	1 04	3 19
239	123	123	-212 24	0 07	0 00	0 00	0 67	0 18
240	141	143	113 95	1 11	0 00	0 00	1 39	4 98
241	143	144	-343 37	1 24	0 00	0 00	1 75	3 22
242	140	143	-274 18	1 09	0 00	0 00	0 06	1 23
243	145	146	133 04	1 47	0 00	0 00	0 46	0 21
244	146	147	-47 24	1 01	0 00	0 00	2 53	0 50
245	147	148	396 39	2 05	0 00	0 00	0 44	0 16
246	148	149	127 06	1 03	0 00	0 00	0 03	0 09
247	149	149	99 91	0 15	0 00	0 00	0 04	0 11
248	149	150	4 40	0 00	0 00	0 00	0 04	0 00
249	150	151	48 49	0 07	0 00	0 00	0 31	0 13
250	151	152	82 05	0 10	0 00	0 00	0 90	0 40
251	152	154	-24 75	0 03	0 00	0 00	0 32	0 04
252	154	155	226 17	1 20	0 00	0 00	1 57	0 09
253	155	156	91 99	0 08	0 00	0 00	0 04	0 33
254	156	157	1 74	0 00	0 00	0 00	0 01	0 00
255	157	158	-3 78	0 01	0 00	0 00	0 01	0 00
256	158	159	-19 95	0 01	0 00	0 00	0 32	0 02
257	159	161	-414 27	9 38	0 00	0 00	3 44	1 00
258	161	162	-727 64	0 45	0 00	0 00	4 70	11 16
259	161	163	278 48	1 70	0 00	0 00	1 78	1 68

263	163	160	-125 05	1.01	0 01	0 00	1 00	1 03
262	164	150	322 00	1.11	1 01	0 00	1 02	2 23
261	164	161	-41 54	1.11	0 01	0 00	0 47	0 22
260	165	150	164 15	1.11	0 01	0 00	2 20	1 12
259	167	162	-159 06	3 53	1 01	0 00	2 59	0 04
258	168	154	264 13	1 35	1 01	0 00	1 11	1 12
257	168	163	-134 11	1 01	1 01	0 00	1 02	1 15
256	169	164	113 36	1 21	1 01	0 00	0 00	1 11
255	169	165	64 72	1 01	1 01	0 00	0 42	1 22
254	169	167	14 06	1 01	1 01	0 00	0 36	1 17
253	169	167	34 33	0 35	1 01	0 00	0 33	1 00
252	169	167	4 41	0 20	1 01	0 00	0 11	0 01
251	169	168	-61 64	0 37	1 01	0 00	0 30	1 11
250	169	167	67 63	0 16	1 01	0 00	0 30	1 11
249	169	169	13 16	0 30	1 01	0 00	0 23	1 01
248	169	167	40 14	0 03	1 01	0 00	0 31	1 11
247	169	169	-234 02	0 17	1 01	0 00	0 31	1 11
246	169	169	60 67	0 14	1 01	0 00	0 40	1 11
245	169	169	38 06	0 02	1 01	0 00	0 23	0 07
244	169	169	-102 60	1 25	1 01	0 00	0 19	0 47
243	169	169	47 33	1 26	1 01	0 00	0 42	1 46
242	169	169	84 81	1 03	1 01	0 00	0 39	1 01
241	169	169	-474 01	1 30	1 01	0 00	1 04	2 51
240	169	169	-1194 34	1 42	1 01	0 00	1 09	1 11
239	169	169	-176 45	1 03	1 01	0 00	1 09	1 04
238	169	169	93 71	1 00	1 01	0 00	1 00	1 19
237	169	169	162 62	1 01	1 01	0 00	1 04	1 25
236	169	169	-236 09	1 32	1 01	0 00	1 01	2 69
235	169	169	-233 10	1 09	1 01	0 00	1 31	2 01
234	169	169	61 20	1 02	1 01	0 00	1 26	0 23
233	169	169	81 27	1 07	1 01	0 00	1 00	0 23
232	169	169	-61 61	1 37	1 01	0 00	1 11	0 46
231	169	169	-49 30	1 04	1 01	0 00	1 10	0 12
230	169	169	107 30	1 17	1 01	0 00	1 15	1 11
229	169	169	-917 40	1 00	1 01	0 00	2 12	1 14
228	169	169	-77 02	1 14	1 01	0 00	1 11	0 19
227	169	169	-42 10	1 01	1 01	0 00	1 01	0 42
226	169	169	76 17	1 01	1 01	0 00	1 12	0 26
225	169	169	-1693 37	2 13	1 01	0 00	3 02	2 00
224	169	169	-1623 08	2 14	1 01	0 00	4 06	2 09
223	169	169	-316 01	1 00	1 01	0 00	1 45	1 19
222	169	169	-319 01	1 31	1 01	0 00	1 53	1 33
221	169	169	-461 70	1 40	1 01	0 00	1 11	1 01
220	169	169	-909 75	1 37	1 01	0 00	1 00	1 46
219	169	169	-431 10	1 01	1 01	0 00	1 11	1 19
218	169	169	-601 53	1 44	1 01	0 00	1 01	1 30
217	169	169	-1142 47	1 23	1 01	0 00	1 11	1 45
216	169	169	-1300 04	0 66	1 01	0 00	1 34	0 80
215	169	169	114 07	0 21	1 01	0 00	0 39	0 24
214	169	169	-263 00	0 21	1 01	0 00	1 40	1 03
213	169	169	17 34	0 40	1 01	0 00	4 30	1 14
212	169	169	-210 17	0 74	1 01	0 00	4 02	1 04
211	169	169	-9202 11	1 13	1 01	0 00	0 05	4 00
210	169	169	-4014 40	0 73	1 01	0 00	1 00	1 11
209	169	169	1700 03	0 72	1 01	0 00	1 40	1 09
208	169	169	-309 01	1 44	1 01	0 00	1 07	1 14
207	169	169	-800 61	0 66	1 01	0 00	1 10	1 10
206	169	169	47 94	0 28	1 01	0 00	1 40	0 10
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204	169	169	67 33	0 21	1 01	0 00	1 04	1 01
203	169	169	1 49	0 21	1 01	0 00	1 20	1 01
202	169	169	1 00	0 20	1 01	0 00	1 00	1 01
201	169	169	32 00	0 24	1 01	0 00	1 20	1 01
200	169	169	209 41	1 00	1 01	0 00	1 17	1 01
199	169	169	127 41	0 56	1 01	0 00	1 05	1 01
198	169	169	162 96	0 55	1 01	0 00	1 10	1 01
197	169	169	14 02	0 20	1 01	0 00	1 19	1 01
196	169	169	142 10	0 49	1 01	0 00	1 01	1 00
195	169	169	142 02	1 40	1 01	0 00	1 04	1 00
194	169	169	37 23	1 31	1 01	0 00	1 24	0 00
193	169	169	270 20	0 37	1 01	0 00	1 14	1 01
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191	169	169	71 53	0 81	1 01	0 00	1 04	1 01
190	169	169	64 13	0 69	1 01	0 00	1 40	1 01
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188	169	169	-246 25	0 34	1 01	0 00	1 10	1 01
187	169	169	-332 14	0 20	1 01	0 00	1 11	1 01
186	169	169	-101 02	0 73	1 01	0 00	1 16	1 01
185	169	169	32 19	0 72	1 01	0 00	1 14	1 01
184	169	169	-141 45	0 53	1 01	0 00	0 07	1 01
183	169	169	-110 04	0 26	1 01	0 00	0 09	1 01
182	169	169	0 00	0 46	1 01	0 00	1 05	1 01
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360	189	189	-136 29	0 24	0 00	5 02	0 49	6 57
361	189	191	-169 22	0 01	0 00	2 02	3 55	1 07
362	190	191	88 27	1 14	0 00	3 02	1 02	1 03
363	191	192	9 14	0 00	0 00	3 02	0 00	0 00
364	191	193	-1922 10	1 00	0 00	3 02	1 17	2 02
365	191	194	-374 14	1 15	0 00	3 02	3 43	3 21
366	194	194	757 24	0 00	0 00	0 02	1 50	0 72
367	194	194	-292 09	0 01	0 00	3 02	3 41	0 10
368	194	194	1015 19	0 47	0 00	0 02	3 70	3 04
369	194	194	337 05	0 03	0 00	3 02	1 32	2 42
370	197	196	1449 65	0 25	0 00	3 02	3 23	3 49
371	197	196	-441 33	0 05	0 00	3 02	0 02	0 26
372	197	198	1214 03	1 12	0 00	0 02	1 44	0 07
373	198	197	2702 68	2 27	0 00	0 02	0 41	4 42
374	198	427	-4502 07	0 00	0 00	0 02	0 00	3 00
375	198	198	79 04	0 00	0 00	0 02	0 01	0 74
376	198	199	101 16	0 25	0 00	0 02	0 00	0 10
377	198	199	-162 03	0 01	0 00	0 02	0 44	0 21
378	198	203	1299 50	0 61	0 00	0 02	1 40	0 74
379	198	199	723 43	0 25	0 00	0 02	1 15	0 37
380	199	199	747 01	1 24	0 00	0 02	1 21	0 41
381	199	199	-44 30	0 01	0 00	0 02	0 00	0 00
382	199	200	-04 07	0 03	0 00	0 02	0 26	0 00
383	200	200	-02 07	0 29	0 00	0 02	0 00	0 00
384	200	200	12 66	0 23	0 00	0 02	0 37	0 26
385	200	202	-14 22	0 02	0 00	0 02	0 21	0 25
386	204	102	10 32	0 01	0 00	0 02	0 12	0 22
387	204	104	-22 00	0 00	0 00	0 02	0 20	0 00
388	204	104	-22 42	0 03	0 00	0 02	0 14	0 00
389	204	104	-08 48	0 07	0 00	0 02	0 43	0 00
390	204	104	107 17	0 39	0 00	0 02	0 60	0 10
391	204	104	-07 49	0 25	0 00	0 02	0 56	0 40
392	204	104	201 45	0 46	0 00	0 02	3 29	1 50
393	204	104	127 02	1 03	0 00	0 02	1 79	4 70
394	204	104	14 49	0 04	0 00	0 02	0 16	0 00
395	204	104	-01 02	0 03	0 00	0 02	0 70	0 00
396	204	104	14 02	0 12	0 00	0 02	1 19	0 20
397	204	104	-00 15	0 09	0 00	0 02	0 60	0 14
398	204	104	46 47	0 02	0 00	0 02	0 03	0 00
399	204	104	-261 43	0 40	0 00	0 02	1 07	0 04
400	204	104	40 05	0 03	0 00	0 02	0 00	0 00
401	204	104	12 64	0 07	0 00	0 02	0 24	0 15
402	204	104	-40 17	0 23	0 00	0 02	0 73	0 01
403	204	104	00 44	0 16	0 00	0 02	0 53	0 00
404	204	104	-0 42	0 01	0 00	0 02	0 10	0 02
405	204	104	-08 73	0 47	0 00	0 02	0 03	0 70
406	204	104	-162 09	0 03	0 00	0 02	0 67	1 35
407	204	104	-201 42	0 05	0 00	0 02	0 74	1 04
408	204	104	-42 39	0 29	0 00	0 02	1 49	0 00
409	204	104	-25 77	0 10	0 00	0 02	0 39	0 57
410	204	104	-30 09	0 10	0 00	0 02	0 43	0 31
411	204	104	-11 04	0 03	0 00	0 02	0 11	0 03
412	204	104	-1 44	0 02	0 00	0 02	0 02	0 00
413	204	104	-23 73	0 04	0 00	0 02	1 27	0 00
414	204	104	-42 16	0 06	0 00	0 02	0 40	0 31
415	204	104	-44 71	0 08	0 00	0 02	1 20	0 00
416	204	104	-10 44	0 03	0 00	0 02	0 12	0 03
417	204	104	14 15	0 14	0 00	0 02	0 03	0 07
418	204	104	15 29	0 10	0 00	0 02	0 62	1 00
419	204	104	174 15	0 40	0 00	0 02	0 72	0 00
420	204	104	-10 47	0 04	0 00	0 02	0 31	0 00
421	204	104	-12 74	0 02	0 00	0 02	0 10	0 00
422	204	104	-17 06	0 03	0 00	0 02	0 43	0 74
423	204	104	-17 11	0 10	0 00	0 02	0 43	0 32
424	204	104	-0 23	0 08	0 00	0 02	0 10	0 00
425	204	104	-14 13	0 02	0 00	0 02	0 10	0 00
426	204	104	-34 04	0 03	0 00	0 02	0 20	0 00
427	204	104	-34 04	0 02	0 00	0 02	0 10	0 00
428	204	104	-17 71	0 03	0 00	0 02	0 20	0 00
429	204	104	-41 70	0 04	0 00	0 02	0 27	0 10
430	204	104	-27 20	0 08	0 00	0 02	0 11	0 10
431	204	104	00 04	0 13	0 00	0 02	0 44	0 25
432	204	104	-17 02	0 04	0 00	0 02	0 37	0 00
433	204	104	06 00	0 03	0 00	0 02	0 59	0 34
434	204	104	-26 09	0 07	0 00	0 02	0 30	0 16
435	204	104	123 04	0 11	0 00	0 02	0 71	0 41
436	204	104	-12 35	0 03	0 00	0 02	0 22	0 11
437	204	104	-11 04	0 03	0 00	0 02	0 71	0 63
438	204	104	-40 04	0 00	0 00	0 02	0 43	0 24
439	204	104	-40 04	0 00	0 00	0 02	0 23	0 23
440	204	104	-4 00	0 00	0 00	0 02	0 10	0 00
441	204	104	12 37	0 03	0 00	0 02	0 18	0 00
442	204	104	-12 37	0 03	0 00	0 02	0 18	0 00
443	204	104	4 03	0 03	0 00	0 02	0 10	0 00
444	204	104	-4 03	0 03	0 00	0 02	0 10	0 00
445	204	104	-44 05	0 06	0 00	0 02	0 45	0 36
446	204	104	-10 47	0 07	0 00	0 02	0 37	0 10
447	204	104	1 04	0 00	0 00	0 02	0 00	0 00
448	204	104	12 46	0 00	0 00	0 02	0 11	0 01
449	204	104	112 07	0 37	0 00	0 02	1 24	0 40

490	232	237	-25.88	2.14	0.07	0.00	0.24	0.12
491	238	237	-22.04	2.02	0.07	0.00	0.23	0.10
492	237	239	-44.33	2.53	0.00	0.00	0.05	0.04
493	238	238	57.83	2.86	0.00	0.00	0.00	0.00
494	239	241	44.41	2.16	0.00	0.00	0.74	0.97
495	241	242	-14.20	2.00	0.00	0.00	0.14	0.34
496	242	244	-23.12	2.00	0.00	0.00	0.26	0.14
497	245	246	-37.01	2.13	0.00	0.00	0.35	0.24
498	247	248	-92.67	2.46	0.00	0.00	1.08	0.97
499	247	248	91.03	2.00	0.00	0.00	0.05	0.24
500	249	243	-61.07	2.04	0.00	0.00	0.75	0.46
501	243	241	-38.75	2.01	0.00	0.00	0.44	0.19
502	241	242	42.10	2.12	0.00	0.00	0.40	0.42
503	240	240	-192.32	2.23	0.00	0.00	0.70	0.29
504	240	240	237.82	2.52	0.00	0.00	0.95	0.67
505	240	240	324.67	4.63	0.06	0.00	2.07	4.49
506	240	240	324.67	1.71	0.00	0.00	2.07	2.45
507	240	241	-192.32	2.23	0.00	0.00	2.10	1.76
508	240	240	3141.84	7.83	0.00	0.00	0.95	38.74
509	240	240	-2614.80	11.78	0.00	0.00	0.47	7.70
510	240	240	-10.31	2.03	0.00	0.00	0.12	0.32
511	240	240	-12.44	2.03	0.00	0.00	0.14	0.02
512	240	241	-22.96	2.09	0.00	0.00	0.26	0.07
513	240	240	-42.33	2.25	0.00	0.00	0.46	0.21
514	240	240	-1.02	2.02	0.00	0.00	0.01	0.00
515	240	240	-4.12	2.01	0.00	0.00	0.08	0.01
516	240	240	8.00	2.01	0.00	0.00	0.11	0.03
517	240	240	27.93	2.27	0.00	0.00	0.26	0.13
518	240	240	25.78	2.14	0.00	0.00	0.24	0.11
519	240	240	64.69	2.72	0.00	0.00	0.76	0.47
520	240	242	-32.27	2.16	0.00	0.00	0.37	0.07
521	240	242	339.18	1.82	0.00	0.00	2.37	1.35
522	240	243	376.21	1.02	0.00	0.00	1.13	0.52
523	240	244	-1568.60	2.05	0.00	0.00	2.94	0.16
524	240	244	-64.41	2.12	0.00	0.00	0.31	0.29
525	240	245	55.00	2.10	0.00	0.00	0.10	0.17
526	240	249	358.63	1.54	0.00	0.00	2.47	0.50
527	240	248	-148.42	2.13	0.00	0.00	1.40	0.33
528	240	246	-428.92	2.82	0.00	0.00	1.74	2.01
529	240	246	-267.97	2.01	0.00	0.00	2.32	1.01
530	240	240	827.22	2.02	0.00	0.00	1.34	2.09
531	240	247	924.16	2.75	0.00	0.00	3.95	4.10
532	240	247	-543.78	2.00	0.00	0.00	3.73	0.26
533	240	241	-109.00	1.42	0.00	0.00	0.22	0.11
534	240	242	-147.74	2.07	0.00	0.00	1.74	0.37
535	240	243	-148.13	2.02	0.00	0.00	1.45	0.13
536	240	244	-138.78	2.09	0.00	0.00	1.44	0.43
537	240	244	-138.07	2.73	0.00	0.00	1.59	0.80
538	240	245	-148.25	2.13	0.00	0.00	1.59	0.83
539	240	245	17.65	2.01	0.00	0.00	0.10	1.04
540	240	245	4.12	2.04	0.00	0.00	0.07	0.01
541	240	245	-39.44	2.04	0.00	0.00	0.40	0.30
542	240	245	-71.11	2.19	0.00	0.00	0.01	0.30
543	240	245	-238.04	2.21	0.00	0.00	1.34	1.82
544	240	245	328.04	2.74	0.00	0.00	1.38	2.04
545	240	245	-122.96	2.03	0.00	0.00	1.40	0.02
546	240	245	-113.20	2.02	0.00	0.00	1.39	0.69
547	240	245	-84.90	2.03	0.00	0.00	1.03	0.73
548	240	245	-27.48	2.00	0.00	0.00	0.71	0.30
549	240	246	1143.18	2.18	0.00	0.00	1.22	1.30
550	240	246	-722.42	2.13	0.00	0.00	2.07	0.21
551	240	246	-910.10	2.78	0.00	0.00	1.72	0.42
552	240	246	-843.70	2.07	0.00	0.00	2.43	0.64
553	240	247	-699.48	2.04	0.00	0.00	2.41	0.70
554	240	247	-323.10	2.02	0.00	0.00	1.00	0.30
555	240	247	-88.63	2.07	0.00	0.00	0.62	0.37
556	240	248	1.67	2.02	0.00	0.00	0.01	0.01
557	240	248	-184.59	2.01	0.00	0.00	2.45	0.35
558	240	248	-631.75	2.18	0.00	0.00	2.60	4.00
559	240	248	-195.64	2.01	0.00	0.00	1.20	1.24
560	240	248	-349.18	2.70	0.00	0.00	2.23	2.00
561	240	248	234.13	2.76	0.00	0.00	1.51	1.10
562	240	247	-227.18	1.81	0.00	0.00	2.48	1.20
563	240	248	-123.00	2.07	0.00	0.00	1.19	1.19
564	240	248	126.62	2.11	0.00	0.00	1.01	0.43
565	240	248	-454.67	2.70	0.00	0.00	1.66	2.20
566	240	249	-233.10	2.00	0.00	0.00	1.16	1.70
567	240	249	-82.74	2.72	0.00	0.00	1.70	0.30
568	240	249	-971.13	2.04	0.00	0.00	1.97	2.47
569	240	249	874.20	2.79	0.00	0.00	1.97	0.01
570	240	249	-117.14	1.44	0.00	0.00	1.40	0.03
571	240	249	-729.10	2.74	0.00	0.00	4.40	12.74
572	240	249	1.41	2.00	0.00	0.00	1.04	0.01
573	240	249	-921.01	1.01	0.00	0.00	4.60	10.73
574	240	249	167.00	2.74	0.00	0.00	1.01	1.64
575	240	249	88.01	2.00	0.00	0.00	1.71	0.47
576	240	249	-78.03	2.16	0.00	0.00	0.20	0.80
577	240	249	89.20	2.44	0.00	0.00	0.10	1.11
578	240	249	-174.97	1.10	0.00	0.00	1.88	0.18
579	240	249	-874.06	19.72	0.00	0.00	1.40	7.00
580	240	249	-177.11	1.38	0.00	0.00	0.01	0.18
581	240	249	-78.40	2.74	0.00	0.00	0.65	6.10

809	329	332	-3.68	0.00	0.00	7.00	2.04	2.00
809	330	303	-6.42	0.00	0.00	6.00	1.08	6.00
809	330	304	-8.72	0.00	0.00	6.00	1.09	6.00
809	330	305	-1.36	0.00	0.00	6.00	1.00	6.00
809	339	304	-5.47	0.00	0.00	7.00	1.04	7.00
809	301	302	26.73	0.00	0.00	1.00	1.71	2.10
809	312	311	30.13	0.00	0.00	6.00	1.31	3.07
809	311	310	-21.19	0.00	0.00	1.00	1.24	2.07
809-PF	312	311	-2239.79	0.00	0.00	1.00	3.57	4.00
809	311	312	231.18	0.00	0.00	1.00	1.52	3.47
809-PG	323	300	1784.82	0.00	0.00	0.00	1.30	29.33
810-HX	327	349						
811	333	319	-430.96	0.00	0.00	1.00	1.71	0.30
812	330	297	-430.96	0.00	0.00	1.00	1.71	0.30
813	337	336	-149.42	1.00	6.00	1.00	1.61	4.32
814	334	335	-61.74	0.10	0.30	1.00	1.69	3.00
815	337	337	39.65	0.30	0.30	0.00	0.65	3.37
816	336	336	-130.62	1.70	0.30	0.00	1.40	3.38
817	336	340	-276.15	12.30	0.00	0.00	3.11	10.51
818	337	338	-310.13	9.30	0.30	0.00	3.02	10.75
819-HY	336	347						
820	340	339	188.02	0.00	1.00	0.00	1.74	4.44
821	339	342	-153.02	1.30	1.00	0.00	1.74	4.44
822	340	341	-153.02	1.30	1.00	0.00	1.74	4.44
823	341	341	-140.02	0.40	1.00	0.00	1.40	4.13
824	341	342	151.02	1.60	1.00	0.00	1.74	4.44
825	341	344	-113.15	1.75	1.00	0.00	1.70	2.99
826-HZ	344	344						
827	344	349	2031.47	0.21	1.00	0.00	2.93	10.60
828	341	346	2007.35	12.61	1.00	0.00	3.91	27.63
829	344	346	-110.90	1.00	1.00	0.00	1.30	2.04
830	340	347	-40.90	1.00	1.00	0.00	0.70	0.10
831	343	348	-194.94	2.93	1.00	0.00	2.70	7.23
832	347	348	40.90	1.00	2.00	0.00	0.70	0.10
833	340	349	0.40	0.00	1.00	0.00	0.20	0.00
834	349	350	-310.30	0.90	1.00	0.00	1.30	1.30
835	340	351	-171.75	0.07	1.00	0.00	1.29	1.37
836	351	352	-75.19	0.16	0.00	0.00	0.00	0.10
837	351	353	-90.12	1.20	1.00	0.00	0.63	0.49
838	352	353	72.11	0.10	1.00	0.00	0.04	1.10
839	353	354	63.72	0.09	1.00	0.00	0.44	0.35
840	353	354	-151.90	0.01	1.00	0.00	1.23	1.24
841	354	355	-137.16	0.06	1.00	0.00	0.00	0.12
842	354	357	-141.62	1.00	1.00	0.00	0.90	0.37
843	357	359	-1.40.47	1.30	1.00	0.00	2.31	4.20
844	353	357	-172.02	0.21	0.00	0.00	0.30	1.40
845	359	360	311.75	0.27	0.00	0.00	1.23	1.39
846	360	360	476.14	0.09	0.00	0.00	0.75	2.15
847	360	361	-176.29	0.07	1.00	0.00	1.13	1.45
848	361	362	-176.71	0.30	1.00	1.00	1.13	1.46
849-HZ	361	362						
850	362	362	-428.94	0.04	0.00	0.00	1.74	1.00
851	362	362	-413.70	0.20	0.00	0.00	0.75	10.70
852	360	366	-2044.21	0.00	0.00	0.00	0.91	12.67
853-PG	360	366	3647.09	1.43	0.00	0.00	0.75	7.03
854-PG	363	367	-428.16	0.12	0.00	0.00	3.46	3.02
855	363	367	-428.16	0.12	0.00	0.00	3.46	3.02
856	363	368	0.00	0.00	0.00	0.00	0.00	0.00
857-HY	364	369	133.47	0.00	0.00	0.00	0.33	0.00
858	364	370	-121.47	0.00	0.00	0.00	0.12	0.00
859	364	370	121.47	0.00	0.00	0.00	0.33	0.00
860	366	368	47.04	0.00	0.00	0.00	2.14	1.11
861	366	368	10.16	0.00	0.00	0.00	0.21	0.00
862	367	364	7.33	0.00	0.00	0.00	0.04	0.00
863	369	360	-12.00	0.00	0.00	0.00	2.16	0.00
864	369	370	9.74	0.00	0.00	0.00	1.11	0.00
865	370	371	-0.33	0.00	0.00	0.00	0.07	0.00
866	370	372	0.40	0.00	0.00	0.00	0.11	0.00
867	370	372	-5.61	0.00	0.00	0.00	0.02	0.00
868	370	372	0.28	0.00	0.00	0.00	0.00	0.00
869	377	374	2.07	0.00	0.00	0.00	0.07	0.00
870	377	374	1.07	0.00	0.00	0.00	0.07	0.00
871	376	377	-13.27	0.00	0.00	0.00	0.00	0.01
872	379	374	10.63	0.00	0.00	0.00	0.46	0.00
873	370	372	-16.00	0.00	0.00	0.00	0.10	0.00
874	370	373	3.04	0.00	0.00	0.00	0.04	0.00
875	373	372	-0.91	0.00	0.00	0.00	0.06	0.00
876	373	372	55.17	0.00	0.00	0.00	3.23	0.00
877	373	368	-72.00	0.00	0.00	0.00	0.11	0.00
878	379	380	-122.61	0.00	0.00	0.00	2.17	0.00
879-PG	380	000	-138.76	0.00	0.00	0.00	2.17	0.00
880	420	010	-4540.00	1.00	0.00	0.00	0.60	3.00
881-HXPG	61	011						
882-PG	522	521	1619.04	0.17	110.94	0.00	2.50	3.00
883-HU	523	521	7245.17	2.70	136.13	0.00	11.56	23.77
884-PG	522	520	-4610.00	0.00	0.00	0.00	0.00	0.00
885-PG	522	520	-1622.39	0.00	0.00	0.00	0.00	0.00
886	522	521	2140.47	0.00	0.00	0.00	0.00	0.00
887-HXPG	523	521						
888-PG	523	524	3793.47	0.31	148.31	0.00	0.16	1.00
889-HXPG	524	524						

900	699	700	1016.78	17.73	1.00	0.00	3.79	3.87
910-FG	700	LL	1016.75	17.73	1.00	0.00	3.79	3.88
911-KK	700	700						
912-KK	700	333						
913-KK	701	333						
914-FG	701	MM	-273.49	1.00	1.00	0.00	1.49	1.13

JUNCTION NO. 2 RESULTS

JUNCTION NUMBER	JUNCTION TITLE	INTERNAL ELEVATION (ft)	HYDRAULIC GRADE (ft)	JUNCTION ELEVATION (ft)	PRESSURE HEAD (ft)	JUNCTION PRESSURE (psi)
1		1.00	3223.97	3223.00	91.97	30.53
2		1.20	3223.95	3223.00	91.95	30.53
3		21.02	3223.99	3223.00	92.00	40.60
4		57.46	3223.48	3223.00	92.60	40.60
5		58.30	3223.72	3223.00	91.72	41.31
6		29.79	3223.84	3223.00	92.84	40.60
7		6.92	3224.27	3223.00	92.27	42.13
8		21.41	3223.73	3223.00	91.73	42.40
9		1.40	3223.69	3223.00	91.69	41.40
10		2.94	3223.94	3223.00	92.94	40.71
11		3.31	3223.94	3223.00	91.94	37.70
12		2.33	3224.09	3223.00	92.09	37.74
13		2.57	3224.00	3223.00	91.00	40.73
14		1.66	3223.44	3223.00	91.44	41.40
15		1.07	3223.63	3223.00	91.63	41.40
16		1.42	3223.10	3223.00	120.10	43.30
17		3.07	3223.16	3223.00	120.16	43.41
18		1.00	3224.62	3223.00	92.62	42.30
19		2.66	3224.79	3223.00	92.79	42.37
20		3.12	3224.10	3223.00	121.10	43.05
21		3.72	3224.06	3223.00	121.06	43.70
22		12.17	3224.33	3223.00	121.33	44.70
23		9.78	3224.24	3223.00	121.24	43.87
24		64.11	3223.51	3223.00	120.51	43.56
25		10.77	3223.39	3223.00	120.39	43.49
26		3.02	3223.19	3223.00	121.19	43.01
27		3.00	3223.01	3223.00	91.01	41.43
28		3.69	3223.03	3223.00	91.03	41.44
29		0.00	3223.62	3223.00	120.62	43.00
30		0.00	3223.53	3223.00	120.53	43.56
31		0.37	3223.34	3223.00	121.34	44.70
32		0.37	3223.62	3223.00	120.62	43.61
33		2.13	3224.24	3223.00	92.24	42.14
34		0.42	3224.63	3223.00	92.63	42.37
35		3.69	3223.36	3223.00	93.36	43.05
36		1.63	4220.70	3223.00	110.70	40.60
37		1.36	3224.41	3223.00	92.41	42.41
38		0.00	3224.14	3223.00	120.14	43.10
39		0.00	3224.04	3223.00	120.04	43.04
40		59.69	3223.10	3223.00	121.10	43.10
41		77.85	3223.74	3223.00	121.74	43.36
42		3.00	3224.60	3223.00	121.60	43.36
43		2.46	3224.99	3223.00	121.99	43.36
44		14.00	4223.62	3223.00	122.62	43.36
45		19.66	3224.99	3223.00	121.99	43.36
46		7.90	4223.16	3223.00	121.16	43.36
47		7.11	3227.81	3223.00	124.81	47.81
48		18.53	4223.26	3223.00	123.26	46.10
49		3.94	4221.97	3223.00	121.97	43.94
50		20.12	4221.14	3223.00	121.14	43.12
51		0.79	4220.19	3223.00	120.19	42.79
52		0.32	4220.39	3223.00	120.39	42.32
53		0.00	4220.01	3223.00	119.01	41.00
54		0.39	4220.61	3223.00	120.61	42.39
55		21.86	4221.63	3223.00	121.63	43.86
56		10.64	4220.36	3223.00	120.36	43.04
57		4.02	4221.27	3223.00	121.27	43.17
58		1.36	4221.61	3223.00	121.61	43.61
59		4.00	4221.67	3223.00	121.67	43.60
60		10.37	4221.34	3223.00	121.34	43.10
61		47.81	4221.81	3223.00	121.81	43.81
62		0.60	4221.63	3223.00	121.63	43.63
63		19.39	4221.65	3223.00	121.65	43.39
64		22.47	4221.69	3223.00	121.69	44.47
65		17.17	4221.60	3223.00	121.60	44.17
66		4.20	4221.40	3223.00	121.40	43.20
67		0.01	4221.49	3223.00	121.49	43.20
68		7.20	4221.90	3223.00	121.90	43.20
69		1.35	4221.07	3223.00	121.07	43.34
70		4.20	4221.19	3223.00	121.19	43.30
71		0.00	4221.40	3223.00	121.40	43.40
72		0.00	4221.90	3223.00	121.90	43.11
73		222.49	4221.90	3223.00	121.90	43.30
74		0.00	4221.72	3223.00	121.72	43.69
75		0.00	4221.87	3223.00	121.87	43.61
76		1.40	4221.35	3223.00	121.35	43.67
77		7.11	4221.23	3223.00	121.23	43.67

85	4 14	4013.67	3881.00	137.47	56.43
86	29 34	4013.26	3882.00	128.24	55.97
87	0 00	4013.12	3883.00	127.42	55.89
88	0 00	4013.40	3884.00	127.40	55.24
89	0 04	4013.51	3885.00	126.91	54.82
90	0 70	4013.49	3886.00	126.43	54.81
91	30 46	4013.24	3887.00	125.54	55.08
92	38 44	4013.22	3888.00	94.29	57.35
93	14 77	4013.38	3889.00	114.70	49.54
94	0 00	4013.21	3890.00	125.21	52.96
95	393 86	4013.74	3891.00	120.72	52.33
96	39 94	4013.77	3892.00	127.77	53.37
97	15 19	4014.82	3893.00	121.62	57.12
98	0 00	4013.97	3894.00	130.97	56.75
99	2 94	4013.71	3895.00	133.71	57.94
100	0 00	4014.10	3896.00	131.14	58.56
101	0 42	4013.25	3897.00	132.25	60.34
102	0 42	4013.29	3898.00	132.29	59.41
103	0 00	4013.07	3899.00	131.07	56.83
104	0 42	4014.62	3900.00	124.62	56.17
105	29 34	4014.79	3901.00	124.79	56.34
106	12 74	4013.93	3902.00	130.99	56.78
107	30 94	4013.84	3903.00	131.84	56.70
108	30 34	4013.29	3904.00	132.39	56.67
109	0 04	4013.64	3905.00	137.64	59.21
110	0 04	4013.81	3906.00	137.81	59.28
111	2 10	4013.90	3907.00	137.90	58.84
112	14 77	4013.82	3908.00	137.82	58.84
113	0 94	4014.53	3909.00	134.53	58.31
114	0 00	4014.64	3910.00	134.64	58.38
115	0 28	4014.84	3911.00	134.84	58.43
116	0 74	4014.90	3912.00	135.90	58.56
117	4 20	4014.88	3913.00	137.88	59.97
118	0 00	4014.45	3914.00	137.45	57.81
119	0 42	4014.47	3915.00	137.45	57.93
120	0 00	4014.74	3916.00	137.94	57.10
121	2 10	4014.94	3917.00	137.94	57.10
122	1 40	4014.74	3918.00	137.74	56.22
123	4 79	4014.66	3919.00	137.66	54.89
124	4 26	4013.44	3920.00	137.44	54.79
125	48 42	4014.49	3921.00	134.49	54.81
126	6 04	4013.14	3922.00	127.14	55.64
127	7 30	4014.94	3923.00	137.94	57.21
128	1 60	4013.00	3924.00	137.00	56.77
129	7 00	4013.34	3925.00	137.34	57.21
130	6 70	4014.03	3926.00	137.03	59.20
131	0 42	4014.70	3927.00	137.70	59.40
132	0 00	4014.65	3928.00	137.65	59.65
133	0 04	4014.25	3929.00	137.25	58.34
134	0 42	4014.14	3930.00	141.14	60.74
135	0 00	4014.14	3931.00	137.14	60.30
136	0 00	4014.14	3932.00	137.14	60.39
137	2 00	4014.17	3933.00	137.17	59.07
138	1 00	4014.22	3934.00	137.22	60.07
139	224 24	4013.54	3935.00	127.54	55.27
140	0 41	4013.77	3936.00	127.77	55.17
141	56 43	4013.88	3937.00	123.88	57.14
142	0 16	4013.84	3938.00	123.84	57.14
143	0 12	4013.87	3939.00	123.87	57.00
144	0 12	4013.34	3940.00	124.28	58.21
145	0 00	4013.39	3941.00	124.39	58.22
146	0 00	4014.11	3942.00	125.11	57.68
147	0 00	4013.87	3943.00	125.87	60.49
148	0 04	4013.84	3944.00	125.84	60.83
149	0 04	4013.67	3945.00	125.67	60.49
150	0 42	4013.27	3946.00	125.27	59.06
151	0 00	4013.87	3947.00	125.87	60.26
152	0 00	4013.84	3948.00	125.84	61.34
153	0 04	4014.21	3949.00	127.21	58.56
154	0 00	4014.22	3950.00	127.22	59.03
155	104 90	4014.23	3951.00	127.23	57.73
156	72 01	4014.23	3952.00	127.21	57.10
157	19 09	4014.25	3953.00	127.25	56.05
158	0 00	4013.64	3954.00	127.64	56.17
159	40 31	4014.01	3955.00	127.01	56.17
160	0 00	4014.04	3956.00	127.04	57.67
161	33 38	4013.35	3957.00	124.35	57.88
162	0 41	4013.24	3958.00	127.24	58.64
163	0 00	4013.41	3959.00	127.41	57.61
164	0 04	4013.82	3960.00	127.82	60.66
165	0 00	4013.67	3961.00	127.67	60.07
166	1 00	4013.71	3962.00	127.71	60.11
167	0 04	4013.67	3963.00	127.67	58.16
168	0 00	4014.04	3964.00	128.04	58.97
169	1 00	4013.84	3965.00	128.84	58.44
170	10 00	4013.16	3966.00	127.16	57.10
171	0 01	4013.17	3967.00	127.17	55.24
172	0 00	4013.06	3968.00	127.06	55.84
173	0 00	4013.78	3969.00	127.78	56.34
174	1 00	4013.42	3970.00	127.42	57.81
175	301 74	4014.16	3971.00	127.16	56.88

104	1.45	4220.64	3004.00	135.64	30.70
105	1.45	4221.10	3005.00	135.10	30.68
106	2.00	4221.50	3006.00	136.50	31.68
107	2.00	4221.61	3007.00	136.61	31.66
108	0.00	4221.74	3008.00	136.74	31.93
109	0.00	4222.09	3009.00	137.09	32.20
110	0.00	4222.81	3010.00	137.81	32.48
111	2.10	4223.67	3011.00	138.67	32.92
112	0.00	4223.67	3012.00	138.67	32.92
113	0.00	4223.61	3013.00	138.61	32.87
114	0.00	4224.10	3014.00	139.10	32.97
115	0.00	4224.34	3015.00	139.34	32.91
116	29.96	4225.61	3016.00	139.61	32.97
117	2.00	4225.63	3017.00	139.63	32.14
118	24.38	4225.61	3018.00	141.01	32.19
119	29.84	4225.11	3019.00	141.11	32.02
120	29.84	4225.65	3020.00	141.65	32.26
121	0.42	4225.62	3021.00	141.62	32.24
122	2.10	4225.90	3022.00	141.90	32.66
123	4.10	4225.96	3023.00	142.96	32.84
124	294.43	4226.37	3024.00	143.37	32.83
125	0.04	4226.62	3025.00	143.62	32.94
126	1.43	4226.74	3026.00	143.74	32.99
127	1.04	4226.76	3027.00	143.76	32.96
128	1.04	4226.21	3028.00	143.21	32.80
129	0.04	4226.24	3029.00	143.24	32.77
130	0.04	4226.79	3030.00	143.79	32.71
131	1.20	4227.37	3031.00	144.37	32.86
132	1.42	4227.37	3032.00	144.37	32.89
133	1.20	4227.37	3033.00	144.37	32.66
134	1.20	4227.07	3034.00	144.07	32.31
135	1.04	4227.07	3035.00	144.07	32.31
136	1.00	4226.89	3036.00	143.89	32.27
137	1.00	4226.33	3037.00	143.33	32.21
138	1.20	4226.79	3038.00	143.79	32.71
139	1.20	4226.85	3039.00	143.85	32.64
140	1.19	4226.39	3040.00	143.39	32.40
141	1.00	4226.41	3041.00	143.41	32.45
142	1.20	4226.74	3042.00	143.74	32.63
143	1.24	4227.09	3043.00	144.09	32.63
144	1.20	4226.14	3044.00	143.14	32.36
145	0.80	4226.22	3045.00	143.22	32.40
146	1.20	4226.82	3046.00	143.82	32.40
147	1.04	4226.81	3047.00	143.81	32.67
148	1.10	4226.98	3048.00	143.98	32.32
149	1.13	4226.92	3049.00	143.92	32.74
150	1.04	4226.13	3050.00	143.13	32.99
151	1.13	4226.12	3051.00	143.12	32.99
152	0.28	4226.13	3052.00	143.13	32.36
153	0.38	4226.24	3053.00	143.24	32.27
154	1.48	4226.98	3054.00	143.98	32.80
155	12.64	4226.98	3055.00	143.98	32.80
156	1.10	4227.38	3056.00	144.38	32.92
157	0.72	4226.01	3057.00	143.01	32.20
158	1.26	4226.98	3058.00	143.98	32.23
159	20.22	4226.84	3059.00	143.84	32.01
160	17.96	4226.08	3060.00	143.08	32.91
161	0.33	4226.06	3061.00	143.06	32.10
162	14.90	4226.00	3062.00	143.00	32.20
163	4.79	4227.37	3063.00	144.37	32.33
164	0.49	4226.43	3064.00	143.43	32.36
165	0.52	4226.74	3065.00	143.74	32.78
166	10.11	4226.94	3066.00	143.94	32.10
167	12.77	4226.17	3067.00	143.17	32.44
168	2.93	4226.93	3068.00	143.93	32.77
169	1.00	4226.63	3069.00	143.63	32.67
170	1.00	4226.71	3070.00	143.71	32.11
171	2.00	4226.84	3071.00	143.84	32.14
172	1.00	4226.87	3072.00	143.87	32.38
173	1.00	4226.79	3073.00	143.79	32.14
174	1.00	4226.87	3074.00	143.87	32.34
175	3.42	4226.73	3075.00	143.73	32.12
176	1.00	4226.88	3076.00	143.88	32.31
177	1.00	4226.86	3077.00	143.86	32.21
178	14.25	4226.33	3078.00	143.33	32.94
179	1.40	4226.87	3079.00	143.87	32.94
180	1.04	4226.94	3080.00	143.94	32.94
181	0.00	4226.78	3081.00	143.78	32.39
182	0.00	4226.77	3082.00	143.77	32.17
183	1.00	4226.10	3083.00	143.10	32.74
184	1.00	4226.10	3084.00	143.10	32.74
185	1.00	4226.10	3085.00	143.10	32.74
186	1.00	4226.10	3086.00	143.10	32.74
187	1.00	4226.10	3087.00	143.10	32.74
188	1.00	4226.10	3088.00	143.10	32.74
189	1.00	4226.10	3089.00	143.10	32.74
190	1.00	4226.10	3090.00	143.10	32.74
191	1.00	4226.10	3091.00	143.10	32.74
192	1.00	4226.10	3092.00	143.10	32.74
193	1.00	4226.10	3093.00	143.10	32.74
194	1.00	4226.10	3094.00	143.10	32.74
195	1.00	4226.10	3095.00	143.10	32.74
196	1.00	4226.10	3096.00	143.10	32.74
197	1.00	4226.10	3097.00	143.10	32.74
198	1.00	4226.10	3098.00	143.10	32.74
199	1.00	4226.10	3099.00	143.10	32.74
200	1.00	4226.10	3100.00	143.10	32.74

[illegible]

302	0.00	4024.12	3072.00	368.12	64.19
303	0.00	4017.67	3071.00	366.67	63.66
304	0.00	4021.77	3071.00	366.77	64.68
305	0.00	4021.68	3071.00	366.68	63.67
306	0.00	4021.76	3071.00	367.76	64.72
307	0.00	4021.77	3071.00	367.77	62.70
308	0.00	4021.72	3071.00	367.72	62.74
309	0.00	4021.81	3071.00	367.81	61.63
310	0.00	4021.80	3071.00	367.80	63.65
311	0.00	4021.79	3071.00	367.79	64.60
312	0.00	4022.26	3071.00	367.26	61.64
313	0.00	4022.20	3071.00	367.20	61.79
314	0.00	4022.65	3071.00	367.65	61.92
315	0.00	4022.64	3071.00	367.64	60.73
316	0.00	4022.67	3071.00	367.67	60.75
317	0.00	4022.31	3071.00	367.31	60.67
318	0.00	4022.24	3071.00	367.24	60.17
319	0.00	4022.36	3071.00	367.36	60.69
401	0.00	4022.90	3071.00	367.90	60.61
402	0.00	4022.94	3071.00	367.94	60.92
403	0.00	4022.85	3071.00	367.85	60.93
404	0.00	4022.87	3071.00	367.87	60.94
405	0.00	4022.10	3071.00	367.10	60.81
406	0.00	4022.16	3071.00	367.16	60.84
407	0.00	4022.09	3071.00	367.09	60.19
408	0.00	4022.46	3071.00	367.46	60.69
409	0.00	4022.39	3071.00	367.39	60.16
410	0.00	4022.76	3071.00	367.76	61.64
411	0.00	3999.46	3071.00	366.46	60.62
412	0.00	3999.29	3071.00	366.29	60.92
413	0.00	4131.19	3071.00	367.19	60.21
414	0.00	4131.00	3071.00	367.00	60.60
415	0.00	3999.93	3071.00	366.93	60.69
416	1127.50	3999.34	3071.00	366.34	60.21
417	0.00	3974.62	3071.00	364.62	60.22
418	0.00	3999.01	3071.00	366.01	60.60

MAXIMUM AND MINIMUM VALUES

PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURE (psi)	JUNCTION NUMBER	MINIMUM PRESSURE (psi)
319	66.16	322	1.00
409	61.99	323	0.24
427	67.10	330	0.84
324	61.21	725	6.32
303	71.97	363	6.40

SL / 1000

PIPE NUMBER	MAXIMUM SL/1000 (ft/ft)	PIPE NUMBER	MINIMUM SL/1000 (ft/ft)
614	36.77	331	0.31
619	31.22	423	0.31
317	30.63	650	0.07
310	24.60	650	0.07
313	24.60	656	0.01

REGULATING VALVE REPORT

VALVE LABEL	VALVE TYPE	MODE	PIPE	SETTING (ft or psi)	VALVE STATUS	UPSTREAM GRADE (ft)	DOWNSTREAM GRADE (ft)	THROUGH FLOW (gpm)
R1	PRV-1	506	447	4216.40	THROTTLED	4270.32	4010.40	131.47

SUMMARY OF INFLOWS AND OUTFLOWS

1-1 INFLOWS INTO THE SYSTEM FROM FIXED GRADE NODES
1-1 OUTFLOWS FROM THE SYSTEM INTO FIXED GRADE NODES

NODE LABEL	PIPE NUMBER	FLOWRATE (gpm)	NODE TITLE
AA	42	-3603.37	TANK 0100
CC	617	1000.70	TANK 7050
DD	303	-1701.82	TANK 7000
EE	463	-1407.89	TANK 7201
FF	444	612.86	TANK 7201
GG	459	135.70	TANK 7770
HH	613	4423.05	TANK 1310
II	610	4423.39	TANK 1310

NET SYSTEM OUTFLOW = 0000.00
 NET SYSTEM DEMAND = 7442.73
 CHANGES FOR NEXT SIMULATION
 DEMAND CHANGES

DEMAND TYPE = 1 CDF = 1.00

PIPE PARAMETER CHANGES

STATUS CODE	EX - CLOSED PIPE CV - CHECK VALVE	FX - FIXED GRADE NODE BV - REGULATING VALVE	SV - LUMP LOAD			
PIPE NUMBER	NODE NO. 01 02	LENGTH (ft)	DIAMETER (in)	ROUGHNESS COEFF	MINOR LOSS COEFF	PGW-MGL (ft)
003-FU	021 026	70.0	14 C	125.00	0.00	0.00
THE PUMP IDENTIFYING NUMBER IS: 0						
010-FU	022 027	70.0	14 C	100.00	0.00	0.00
THE PUMP IDENTIFYING NUMBER IS: 1						

SIMULATION RESULTS

THE RESULTS ARE OBTAINED AFTER 1 TOTALS WITH AN ACCURACY = 0.0076

PIPELINE RESULTS

STATUS CODE	EX - CLOSED PIPE CV - CHECK VALVE	FX - FIXED GRADE NODE BV - REGULATING VALVE	SV - LUMP LOAD TC - STORAGE TANK					
PIPE NUMBER	NODE NO. 01 02	FLUORIDE (ppm)	HEAD LOSS (ft)	PUMP HEAD (ft)	FLOW LOSS (ft)	MINOR LOSS (ft)	LINE LOSS (ft)	HL/1000 (ft)
1	1 2	13.33	0.03	0.00	0.00	0.15	0.15	0.15
2	2 3	30.74	0.04	0.00	0.00	0.25	0.25	0.25
3	3 4	63.10	0.40	0.00	0.00	0.72	0.72	0.40
4	4 5	30.31	0.01	0.00	0.00	0.12	0.12	0.12
5	5 6	7.99	0.03	0.00	0.00	0.19	0.19	0.19
6	6 7	0.09	0.00	0.00	0.00	0.04	0.04	0.04
7	7 8	55.44	0.13	0.00	0.00	0.43	0.43	0.43
8	8 9	60.44	0.14	0.00	0.00	0.40	0.40	0.40
9	9 10	61.03	0.04	0.00	0.00	0.29	0.29	0.29
10	10 11	10.21	0.03	0.00	0.00	0.22	0.22	0.22
11	11 12	14.53	0.02	0.00	0.00	0.16	0.16	0.16
12	12 13	7.09	0.02	0.00	0.00	0.30	0.30	0.30
13	13 14	10.01	0.10	0.00	0.00	0.23	0.23	0.23
14	14 15	102.08	0.40	0.00	0.00	1.16	1.16	1.16
15	15 16	0.07	0.01	0.00	0.00	0.09	0.09	0.09
16	16 17	31.12	0.07	0.00	0.00	0.24	0.24	0.24
17	17 18	31.03	0.14	0.00	0.00	0.34	0.34	0.34
18	18 19	2.41	0.00	0.00	0.00	0.03	0.03	0.03
19	19 20	38.55	0.04	0.00	0.00	0.43	0.43	0.43
20	20 21	42.14	0.10	0.00	0.00	0.40	0.40	0.40
21	21 22	61.17	0.03	0.00	0.00	0.19	0.19	0.19
22	22 23	61.17	0.03	0.00	0.00	0.19	0.19	0.19
23	23 24	43.56	0.03	0.00	0.00	0.20	0.20	0.20
24	24 25	105.13	0.40	0.00	0.00	0.67	0.67	0.67
25	25 26	55.33	0.04	0.00	0.00	0.61	0.61	0.61
26	26 27	132.07	0.10	0.00	0.00	0.97	0.97	0.97
27	27 28	310.45	0.07	0.00	0.00	1.50	1.50	1.50
28	28 29	66.91	0.07	0.00	0.00	1.04	1.04	1.04
29	29 30	69.73	0.03	0.00	0.00	0.30	0.30	0.30
30	30 31	27.57	0.04	0.00	0.00	0.20	0.20	0.20
31	31 32	35.14	0.12	0.00	0.00	0.40	0.40	0.40
32	32 33	26.42	0.04	0.00	0.00	0.20	0.20	0.20
33	33 34	9.06	0.02	0.00	0.00	0.10	0.10	0.10
34	34 35	33.76	0.03	0.00	0.00	0.24	0.24	0.24
35	35 36	0.79	0.01	0.00	0.00	0.11	0.11	0.11
36	36 37	30.22	0.03	0.00	0.00	0.23	0.23	0.23
37	37 38	33.43	0.10	0.00	0.00	0.38	0.38	0.38
38	38 39	19.79	0.00	0.00	0.00	0.11	0.11	0.11
39	39 40	33.37	0.03	0.00	0.00	0.20	0.20	0.20
40	40 41	289.98	0.04	0.00	0.00	0.77	0.77	0.77
41	41 42	13.47	0.04	0.00	0.00	0.20	0.20	0.20
42	42 43	163.41	0.13	0.00	0.00	1.00	1.00	1.00
43	43 44	60.72	0.09	0.00	0.00	0.57	0.57	0.57
44	44 45	50.76	0.03	0.00	0.00	0.20	0.20	0.20
45	45 46	135.03	0.01	0.00	0.00	0.03	0.03	0.03
46	46 47	2.70	0.02	0.00	0.00	0.01	0.01	0.01
47	47 48	10.10	0.01	0.00	0.00	0.14	0.14	0.14
48	48 49	14.70	0.03	0.00	0.00	0.19	0.19	0.19
49	49 50	32.45	0.00	0.00	0.00	0.07	0.07	0.07
50	50 51	33.43	0.01	0.00	0.00	0.03	0.03	0.03
51	51 52	57.00	0.03	0.00	0.00	0.24	0.24	0.24
52	52 53	9.00	0.01	0.00	0.00	0.03	0.03	0.03

50	42	43	-1 37	0.00	0.00	0.00	0.00	0.00
51	42	43	-14 40	0.03	0.00	0.00	0.00	0.00
52	44	43	13 04	0.14	0.00	0.00	0.00	0.00
53	44	45	24 73	0.16	0.00	0.00	0.00	0.00
54	44	46	-1 37	0.00	0.00	0.00	0.00	0.00
55	45	46	133 74	0.72	0.00	0.00	0.00	0.00
56	45	47	133 67	0.01	0.00	0.00	0.00	0.00
57	46	47	-21 33	0.00	0.00	0.00	0.00	0.00
58	46	48	21 13	0.02	0.00	0.00	0.00	0.00
59	46	49	31 35	0.22	0.00	0.00	0.00	0.00
60	46	50	19 35	0.00	0.00	0.00	0.00	0.00
61	46	51	67 48	0.11	0.00	0.00	0.00	0.00
62	47	51	487 38	0.14	0.00	0.00	0.00	0.00
63	47	52	-76 39	0.11	0.00	0.00	0.00	0.00
64	47	53	-48 17	0.00	0.00	0.00	0.00	0.00
65	47	54	50 46	0.02	0.00	0.00	0.00	0.00
66	47	55	30 72	0.12	0.00	0.00	0.00	0.00
67	47	56	40 43	0.16	0.00	0.00	0.00	0.00
68	47	57	-43 74	0.04	0.00	0.00	0.00	0.00
69	47	58	40 98	0.02	0.00	0.00	0.00	0.00
70	47	59	10 26	0.00	0.00	0.00	0.00	0.00
71	47	60	-10 26	0.00	0.00	0.00	0.00	0.00
72	47	61	33 26	0.01	0.00	0.00	0.00	0.00
73	47	62	13 42	0.01	0.00	0.00	0.00	0.00
74	47	63	3 12	0.00	0.00	0.00	0.00	0.00
75	47	64	-44 76	0.00	0.00	0.00	0.00	0.00
76	47	65	-11 33	0.00	0.00	0.00	0.00	0.00
77	47	66	-152 62	0.17	0.00	0.00	0.00	0.00
78	47	67	-243 38	0.18	0.00	0.00	0.00	0.00
79	47	68	62 94	0.06	0.00	0.00	0.00	0.00
80	47	69	-214 15	0.23	0.00	0.00	0.00	0.00
81	47	70	-92 77	0.00	0.00	0.00	0.00	0.00
82	47	71	-75 91	0.16	0.00	0.00	0.00	0.00
83	47	72	83 64	0.21	0.00	0.00	0.00	0.00
84	47	73	86 34	0.01	0.00	0.00	0.00	0.00
85	47	74	21 77	0.17	0.00	0.00	0.00	0.00
86	47	75	-133 28	0.44	0.00	0.00	0.00	0.00
87	47	76	-183 98	0.04	0.00	0.00	0.00	0.00
88	47	77	97 23	0.13	0.00	0.00	0.00	0.00
89	47	78	-133 71	0.10	0.00	0.00	0.00	0.00
90	47	79	134 68	0.16	0.00	0.00	0.00	0.00
91	47	80	-189 60	0.17	0.00	0.00	0.00	0.00
92	47	81	-23 90	0.04	0.00	0.00	0.00	0.00
93	47	82	194 88	0.15	0.00	0.00	0.00	0.00
94	47	83	-78 38	0.04	0.00	0.00	0.00	0.00
95	47	84	-1 69	0.00	0.00	0.00	0.00	0.00
96	47	85	144 29	0.04	0.00	0.00	0.00	0.00
97	47	86	13 29	0.02	0.00	0.00	0.00	0.00
98	47	87	82 82	0.02	0.00	0.00	0.00	0.00
99	47	88	41 60	0.01	0.00	0.00	0.00	0.00
100	47	89	17 19	0.01	0.00	0.00	0.00	0.00
101	47	90	17 71	0.00	0.00	0.00	0.00	0.00
102	47	91	13 1	0.00	0.00	0.00	0.00	0.00
103	47	92	12 24	0.02	0.00	0.00	0.00	0.00
104	47	93	-24 82	0.04	0.00	0.00	0.00	0.00
105	47	94	42 13	0.14	0.00	0.00	0.00	0.00
106	47	95	73 99	0.13	0.00	0.00	0.00	0.00
107	47	96	58 79	0.09	0.00	0.00	0.00	0.00
108	47	97	-487 80	0.16	0.00	0.00	0.00	0.00
109	47	98	45 54	0.02	0.00	0.00	0.00	0.00
110	47	99	-43 94	0.06	0.00	0.00	0.00	0.00
111	47	100	-444 93	0.10	0.00	0.00	0.00	0.00
112	47	101	-9 30	0.00	0.00	0.00	0.00	0.00
113	47	102	-47 74	0.04	0.00	0.00	0.00	0.00
114	47	103	-446 13	0.07	0.00	0.00	0.00	0.00
115	47	104	44 46	0.10	0.00	0.00	0.00	0.00
116	47	105	89 71	0.13	0.00	0.00	0.00	0.00
117	47	106	31 04	0.12	0.00	0.00	0.00	0.00
118	47	107	24 74	0.12	0.00	0.00	0.00	0.00
119	47	108	-44 43	0.15	0.00	0.00	0.00	0.00
120	47	109	-85 5	0.11	0.00	0.00	0.00	0.00
121	47	110	-161 27	0.14	0.00	0.00	0.00	0.00
122	47	111	-79 27	0.04	0.00	0.00	0.00	0.00
123	47	112	32 17	0.08	0.00	0.00	0.00	0.00
124	47	113	-61 82	0.05	0.00	0.00	0.00	0.00
125	47	114	81 71	0.71	0.00	0.00	0.00	0.00
126	47	115	-289 27	0.77	0.00	0.00	0.00	0.00
127	47	116	-121 1	0.77	0.00	0.00	0.00	0.00
128	47	117	-131 84	0.04	0.00	0.00	0.00	0.00
129	47	118	179 88	0.78	0.00	0.00	0.00	0.00
130	47	119	8 61	0.69	0.00	0.00	0.00	0.00
131	47	120	128 61	0.23	0.00	0.00	0.00	0.00
132	47	121	19 49	0.29	0.00	0.00	0.00	0.00
133	47	122	-110 87	0.13	0.00	0.00	0.00	0.00
134	47	123	41 09	0.12	0.00	0.00	0.00	0.00
135	47	124	15 79	0.01	0.00	0.00	0.00	0.00
136	47	125	19 65	0.13	0.00	0.00	0.00	0.00
137	47	126	25 68	0.17	0.00	0.00	0.00	0.00
138	47	127	83 02	0.06	0.00	0.00	0.00	0.00
139	47	128	7 52	0.01	0.00	0.00	0.00	0.00
140	47	129	100 61	0.16	0.00	0.00	0.00	0.00
141	47	130	38 48	0.18	0.00	0.00	0.00	0.00
142	47	131	29 39	0.09	0.00	0.00	0.00	0.00
143	47	132	-43 46	0.13	0.00	0.00	0.00	0.00
144	47	133	30 46	0.12	0.00	0.00	0.00	0.00

197	86	88	36 81	0 01	0 00	0 00	0 00	0 00
198	87	88	36 73	0 00	0 00	0 00	0 00	0 00
199	87	104	-481 24	0 11	0 00	0 00	0 00	0 00
200	88	88	75 54	0 00	0 00	0 00	0 00	0 00
201	89	89	-49 82	0 02	0 00	0 00	0 00	0 00
202	103	90	32 16	0 17	0 00	0 00	0 00	0 00
203	89	91	123 14	0 04	0 00	0 00	0 00	0 00
204	90	91	428 90	0 04	0 00	0 00	0 00	0 00
205	90	160	-338 32	0 45	0 00	0 00	0 00	0 00
206	91	95	501 36	0 27	0 00	0 00	0 00	0 00
207	91	92	592 14	0 45	0 00	0 00	0 00	0 00
208	93	93	774 20	0 44	0 00	0 00	0 00	0 00
209	93	94	-269 93	0 44	0 00	0 00	0 00	0 00
210	91	162	-509 36	0 46	0 00	0 00	0 00	0 00
211	94	159	-797 61	0 80	0 00	0 00	0 00	0 00
212	94	95	506 65	0 67	0 00	0 00	0 00	0 00
213	94	158	-163 36	0 92	0 00	0 00	0 00	0 00
214	94	98	-174 86	0 85	0 00	0 00	0 00	0 00
215	97	157	-84 19	0 18	0 00	0 00	0 00	0 00
216	97	98	393 84	0 14	0 00	0 00	0 00	0 00
217	97	103	31 54	0 19	0 00	0 00	0 00	0 00
218	98	99	-823 36	0 41	0 00	0 00	0 00	0 00
219	103	99	61 88	0 13	0 00	0 00	0 00	0 00
220	99	166	-11 86	0 01	0 00	0 00	0 00	0 00
221	99	166	-134 86	0 12	0 00	0 00	0 00	0 00
222	103	166	-17 13	0 02	0 00	0 00	0 00	0 00
223	101	166	54 91	0 10	0 00	0 00	0 00	0 00
224	101	163	83 48	0 17	0 00	0 00	0 00	0 00
225	101	163	-179 93	0 43	0 00	0 00	0 00	0 00
226	103	164	214 98	0 22	0 00	0 00	0 00	0 00
227	103	164	263 84	0 12	0 00	0 00	0 00	0 00
228	103	162	-179 63	0 41	0 00	0 00	0 00	0 00
229	103	162	-34 18	0 13	0 00	0 00	0 00	0 00
230	103	162	11 84	0 09	0 00	0 00	0 00	0 00
231	103	162	37 56	0 12	0 00	0 00	0 00	0 00
232	103	162	-39 72	0 05	0 00	0 00	0 00	0 00
233	103	162	36 48	0 16	0 00	0 00	0 00	0 00
234	103	162	-64 23	0 06	0 00	0 00	0 00	0 00
235	103	162	61 55	0 11	0 00	0 00	0 00	0 00
236	103	162	21 65	0 11	0 00	0 00	0 00	0 00
237	103	162	113 89	0 12	0 00	0 00	0 00	0 00
238	103	162	91 85	0 05	0 00	0 00	0 00	0 00
239	103	162	13 21	0 04	0 00	0 00	0 00	0 00
240	103	162	-130 82	0 13	0 00	0 00	0 00	0 00
241	103	162	106 12	0 09	0 00	0 00	0 00	0 00
242	103	162	3 63	0 00	0 00	0 00	0 00	0 00
243	103	162	-99 19	0 13	0 00	0 00	0 00	0 00
244	103	162	100 34	0 07	0 00	0 00	0 00	0 00
245	103	162	-64 71	0 06	0 00	0 00	0 00	0 00
246	103	162	145 17	0 03	0 00	0 00	0 00	0 00
247	103	162	-725 68	0 16	0 00	0 00	0 00	0 00
248	103	162	-21 73	0 01	0 00	0 00	0 00	0 00
249	103	162	-44 83	0 01	0 00	0 00	0 00	0 00
250	103	162	-74 83	0 06	0 00	0 00	0 00	0 00
251	103	162	-18 74	0 01	0 00	0 00	0 00	0 00
252	103	162	36 12	0 06	0 00	0 00	0 00	0 00
253	103	162	-28 94	0 02	0 00	0 00	0 00	0 00
254	103	162	91 47	0 07	0 00	0 00	0 00	0 00
255	103	162	-48 96	0 03	0 00	0 00	0 00	0 00
256	103	162	71 48	0 04	0 00	0 00	0 00	0 00
257	103	162	-18 96	0 03	0 00	0 00	0 00	0 00
258	103	162	31 01	0 03	0 00	0 00	0 00	0 00
259	103	162	-22 37	0 02	0 00	0 00	0 00	0 00
260	103	162	109 43	0 07	0 00	0 00	0 00	0 00
261	103	162	-38 46	0 02	0 00	0 00	0 00	0 00
262	103	162	48 10	0 03	0 00	0 00	0 00	0 00
263	103	162	-172 18	0 04	0 00	0 00	0 00	0 00
264	103	162	-704 55	0 18	0 00	0 00	0 00	0 00
265	103	162	-165 78	0 07	0 00	0 00	0 00	0 00
266	103	162	-1 67	0 00	0 00	0 00	0 00	0 00
267	103	162	-575 79	0 15	0 00	0 00	0 00	0 00
268	103	162	-264 31	0 03	0 00	0 00	0 00	0 00
269	103	162	126 88	0 00	0 00	0 00	0 00	0 00
270	103	162	126 88	0 00	0 00	0 00	0 00	0 00
271	103	162	126 88	0 00	0 00	0 00	0 00	0 00
272	103	162	126 88	0 00	0 00	0 00	0 00	0 00
273	103	162	126 88	0 00	0 00	0 00	0 00	0 00
274	103	162	126 88	0 00	0 00	0 00	0 00	0 00
275	103	162	126 88	0 00	0 00	0 00	0 00	0 00
276	103	162	126 88	0 00	0 00	0 00	0 00	0 00
277	103	162	126 88	0 00	0 00	0 00	0 00	0 00
278	103	162	126 88	0 00	0 00	0 00	0 00	0 00
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280	103	162	126 88	0 00	0 00	0 00	0 00	0 00
281	103	162	126 88	0 00	0 00	0 00	0 00	0 00
282	103	162	126 88	0 00	0 00	0 00	0 00	0 00
283	103	162	126 88	0 00	0 00	0 00	0 00	0 00
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285	103	162	126 88	0 00	0 00	0 00	0 00	0 00
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288	103	162	126 88	0 00	0 00	0 00	0 00	0 00
289	103	162	126 88	0 00	0 00	0 00	0 00	0 00
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293	103	162	126 88	0 00	0 00	0 00	0 00	0 00
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295	103	162	126 88	0 00	0 00	0 00	0 00	0 00
296	103	162	126 88	0 00	0 00	0 00	0 00	0 00
297	103	162	126 88	0 00	0 00	0 00	0 00	0 00
298	103	162	126 88	0 00	0 00	0 00	0 00	0 00
299	103	162	126 88	0 00	0 00	0 00	0 00	0 00
300	103	162	126 88	0 00	0 00	0 00	0 00	0 00
301	103	162	126 88	0 00	0 00	0 00	0 00	0 00
302	103	162	126 88	0 00	0 00	0 00	0 00	0 00
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321	103	162	126 88	0 00	0 00	0 00	0 00	0 00
322	103	162	126 88	0 00	0 00	0 00	0 00	0 00
323	103	162	126 88	0 00	0 00	0 00	0 00	0 00
324	103	162	126 88	0 00	0 00	0 00	0 00	0 00
325	103	162	126 88	0 00	0 00	0 00	0 00	0 00

286	158	159	126.20	0.78	0.00	0.00	1.19	1.23
287	159	161	-577.87	0.56	0.30	0.00	2.24	3.00
288	161	161	-901.71	0.73	0.00	0.00	6.14	10.27
289	161	162	390.94	3.34	0.30	3.00	2.49	3.44
290	162	163	-118.83	0.69	0.00	3.00	1.35	1.54
291	163	164	-163.23	2.06	0.00	3.00	1.64	3.71
292	164	165	257.35	0.77	0.00	3.00	1.71	1.71
293	164	166	-87.19	0.59	0.30	3.00	3.99	0.07
294	165	166	336.95	0.89	0.00	3.00	1.91	1.36
295	167	167	-358.89	3.04	0.00	3.00	1.71	1.71
296	202	204	194.85	1.95	0.00	0.00	1.34	0.95
297	193	203	-167.18	1.65	0.00	3.00	1.07	0.72
298	193	204	50.34	0.94	0.00	0.00	0.32	0.14
299	194	204	101.12	0.18	0.00	0.00	0.65	0.32
299	195	207	-81.96	0.10	0.00	0.00	0.33	0.15
299	196	207	81.96	0.24	0.00	0.00	0.32	0.38
299	197	207	-75.31	0.01	0.00	0.00	0.33	0.08
299	197	208	-86.31	0.04	0.00	0.00	0.39	0.11
299	199	208	44.64	0.04	0.00	0.00	0.30	0.13
299	199	208	-13.20	0.01	0.00	0.00	0.32	0.02
299	199	208	-14.68	0.01	0.00	0.00	0.31	0.02
299	199	209	-91.88	0.07	0.00	0.00	0.37	0.12
299	199	209	21.16	0.04	0.00	0.00	0.31	0.06
299	199	209	-49.74	0.04	0.00	0.00	0.31	0.10
299	199	209	-81.42	0.05	0.00	0.00	0.31	0.10
299	199	209	-14.10	0.01	0.00	0.00	0.31	0.02
299	199	209	-175.39	0.09	0.00	0.00	0.30	0.10
299	199	209	-235.63	0.34	0.00	0.00	0.00	0.00
299	199	209	-888.67	0.94	0.00	0.00	1.48	1.97
299	199	209	-175.06	1.71	0.00	0.00	2.04	6.31
299	199	209	42.82	2.22	0.00	0.00	2.49	1.43
299	199	209	-69.56	0.11	0.00	0.00	0.40	0.26
299	199	209	-167.90	1.00	0.00	0.00	1.42	4.00
299	199	209	-160.20	0.65	0.00	0.00	1.37	1.33
299	199	209	-84.63	0.04	0.00	0.00	0.98	0.31
299	199	209	10.85	0.07	0.00	0.00	0.18	0.33
299	199	209	-19.70	0.04	0.00	0.00	0.22	0.05
299	199	209	4.24	0.00	0.00	0.00	0.00	0.00
299	199	209	394.85	0.31	0.00	0.00	2.42	1.51
299	199	209	-878.09	1.05	0.00	0.00	2.31	3.91
299	199	209	-30.61	0.01	0.00	0.00	6.32	1.04
299	199	209	-18.83	0.01	0.00	0.00	0.10	1.07
299	199	209	323.15	0.30	0.00	0.00	0.95	1.42
299	199	209	-1107.08	1.76	0.00	0.00	2.72	3.25
299	199	209	-1104.61	1.05	0.00	0.00	2.04	7.31
299	199	209	-878.09	0.00	0.00	0.00	1.30	1.27
299	199	209	-808.74	0.37	0.00	0.00	1.07	1.53
299	199	209	-614.32	0.60	0.00	0.00	1.74	1.67
299	199	209	-637.94	1.00	0.00	0.00	2.01	1.00
299	199	209	-647.93	0.03	0.00	0.00	2.69	1.73
299	199	209	-788.17	0.65	0.00	0.00	3.00	1.04
299	199	209	-1147.92	1.17	0.00	0.00	3.26	0.32
299	199	209	-1240.44	0.43	0.00	0.00	3.34	0.23
299	199	209	90.34	0.01	0.00	0.00	0.20	0.06
299	199	209	-244.07	0.31	0.00	0.00	1.49	3.27
299	199	209	1017.59	0.41	0.00	0.00	4.14	10.35
299	199	209	-2844.89	0.71	0.00	0.00	4.72	0.64
299	199	209	-4836.48	1.10	0.00	0.00	6.37	22.04
299	199	209	-3837.43	0.66	0.00	0.00	7.36	12.20
299	199	209	1296.89	0.07	0.00	0.00	2.92	3.40
299	199	209	-2126.75	4.44	0.00	0.00	3.40	3.72
299	199	209	-793.12	3.31	0.00	0.00	3.00	5.93
299	199	209	361.09	3.77	0.00	0.00	2.30	5.47
299	199	209	-244.76	0.07	0.00	0.00	2.60	0.74
299	199	209	273.23	0.14	0.00	0.00	0.45	0.60
299	199	209	0.60	0.01	0.00	0.00	0.00	0.00
299	199	209	0.00	0.05	0.00	0.00	0.00	0.00
299	199	209	106.07	1.03	0.00	0.00	1.15	1.51
299	199	209	275.31	1.01	0.00	0.00	1.12	0.99
299	199	209	124.45	0.33	0.00	0.00	0.79	0.76
299	199	209	149.46	0.51	0.00	0.00	0.96	1.07
299	199	209	20.42	0.01	0.00	0.00	0.16	0.05
299	199	209	151.77	0.89	0.00	0.00	0.97	1.10
299	199	209	119.47	0.34	0.00	0.00	0.77	0.91
299	199	209	130.46	0.31	0.00	0.00	0.69	0.93
299	199	209	392.02	0.91	0.00	0.00	1.06	1.36
299	199	209	-30.00	0.01	0.00	0.00	0.13	0.03
299	199	209	158.79	1.12	0.00	0.00	1.01	1.29
299	199	209	10.22	0.00	0.00	0.00	0.15	0.20
299	199	209	37.41	0.03	0.00	0.00	0.43	0.10
299	199	209	-212.79	0.05	0.00	0.00	1.14	1.13
299	199	209	-288.68	0.00	0.00	0.00	1.44	1.29
299	199	209	-185.96	0.73	0.00	0.00	1.10	0.87
299	199	209	12.17	0.00	0.00	0.00	0.30	0.01
299	199	209	-171.46	0.01	0.00	0.00	0.71	0.39
299	199	209	-25.40	0.02	0.00	0.00	0.88	0.21
299	199	209	-427.66	0.00	0.00	0.00	1.46	1.17
299	199	209	377.47	0.01	0.00	0.00	1.77	1.03
299	199	209	387.07	0.07	0.00	0.00	1.44	0.87
299	199	209	-53.98	0.05	0.00	0.00	0.61	0.14
299	199	209	107.43	0.00	0.00	0.00	1.34	0.33
299	199	209	-69.01	0.12	0.00	0.00	0.48	0.17
299	199	209	79.74	0.43	0.00	0.00	0.83	0.52
299	199	209	243.03	1.21	0.00	0.00	1.82	1.82
299	199	209	124.14	1.08	0.00	0.00	3.27	3.04
299	199	209	449.29	2.09	0.00	0.00	2.42	3.74

255	191	189	77 08	0 20	2.00	0 00	0 00	2 32
256	109	186	39 76	1 03	1.50	0 00	0 44	0.14
257	136	187	-08.34	0 00	1.00	0 00	0 56	0.22
258	107	107	99.36	0 12	1.50	0 00	0 30	0.11
259	107	108	-34 10	0 12	1.00	0 00	0 22	0.04
260	100	101	-09 14	0 00	1.00	0 00	0 01	0.47
261	100	102	-131 13	0 47	1.00	0 00	0 06	0.09
262	100	103	73 17	0 01	1.00	0 00	0 03	1.16
263	100	104	7 76	0 00	1.00	0 00	0 00	0.00
264	100	105	-1209 74	1 46	1.00	0 00	2 71	2.09
265	101	106	-331 98	1 11	1.00	0 00	1 16	2.65
266	106	107	744 85	1 40	1.00	0 00	1.56	0.70
267	106	108	-301 97	1 02	1.00	0 00	0 03	0.20
268	106	109	1603 74	1 46	1.00	0 00	1 43	1.37
269	106	110	200 10	0 01	1.00	0 00	1 13	1.40
270	107	106	1419 1	1.10	1.00	0 00	2 46	2.29
271	107	106	-464 10	1 05	1.00	0 00	3 74	0.39
272	107	105	1213 54	1 15	1.00	0 00	1.07	0.99
273	106	107	2012.01	1 20	1.00	0 00	4 33	4.09
274	106	107	-4334 54	32 24	1.00	0 00	4 43	1.60
275	107	106	01.59	0 01	1.00	0 00	1 44	0.79
276	107	107	379.78	0 27	1.00	0 00	1 70	0.20
277	106	108	-105.49	0 00	1.00	0 00	0 43	0.10
278	106	109	1137.40	0 01	1.00	0 00	1.00	0.00
279	106	109	031.42	0 00	1.00	0 00	1 04	0.25
280	106	109	064.46	1 00	1.00	0 00	1 04	0.63
281	106	109	-042.74	0 00	1.00	0 00	1 13	0.01
282	107	106	-76.87	0 06	1.00	0 00	1 46	1.18
283	106	107	-45.16	0 12	1.00	0 00	1 41	0.35
284	106	107	32 40	0 12	1.00	0 00	1 41	0.30
285	106	107	-17.67	0 12	1.00	0 00	1 70	0.09
286	106	107	17.67	0 12	1.00	0 00	1 11	0.02
287	106	107	-20.51	0 12	1.00	0 00	1 09	0.00
288	106	107	13 77	0 11	1.00	0 00	1 09	0.00
289	106	107	-130.19	0 06	1.00	0 00	1 41	0.60
290	106	107	09.10	0 06	1.00	0 00	1 03	0.00
291	106	107	-79.22	0 21	1.00	0 00	1 41	0.10
292	106	107	200.69	0 03	1.00	0 00	2 17	0.09
293	106	107	234 40	1 26	1.00	0 00	2 09	10.10
294	106	107	44.73	0 06	1.00	0 00	1 70	1.97
295	106	107	-53.40	0 06	1.00	0 00	1 03	0.09
296	106	107	43 46	0 19	1.00	0 00	0 60	0.02
297	106	107	-121 05	0 09	1.00	0 00	1 41	0.14
298	106	107	03.22	0 09	1.00	0 00	1 03	0.09
299	106	107	-379 66	0 11	1.00	0 00	1 13	0.92
300	106	107	71 70	0 07	1.00	0 00	0 46	0.17
301	106	107	09 47	0 13	1.00	0 00	0 46	0.24
302	106	107	-79 51	0 20	1.00	0 00	0 66	1.22
303	106	107	07 52	0 21	1.00	0 00	0 61	0.08
304	106	107	-10 40	0 43	1.00	0 00	0 22	0.10
305	106	107	-05 02	0 47	1.00	0 00	0 61	0.70
306	106	107	-175 25	1 04	1.00	0 00	0 72	0.40
307	106	107	-109 32	0 60	1.00	0 00	0 77	0.46
308	106	107	-45 09	0 33	1.00	0 00	0 12	0.40
309	106	107	-17 15	1 16	1.00	0 00	0 31	0.19
310	106	107	-10 74	1 20	1.00	0 00	0 44	0.34
311	106	107	-12 08	1 06	1.00	0 00	0 14	0.04
312	106	107	-1.01	1 00	1.00	0 00	0 02	0.10
313	106	107	-24 01	1 07	1.00	0 00	0 30	0.29
314	106	107	-44 03	1 07	1.00	0 00	0 31	0.25
315	106	107	-72 04	1 09	1.00	0 00	0 29	0.27
316	106	107	-11.56	1 02	1.00	0 00	0 11	0.04
317	106	107	69 67	1 17	1.00	0 00	0 60	0.79
318	106	107	42.10	1 20	1.00	0 00	0 60	0.09
319	106	107	142 43	1 00	1.00	0 00	0 70	0.66
320	106	107	-32 11	1 01	1.00	0 00	0 43	0.11
321	106	107	-10 47	1 01	1.00	0 00	0 19	0.01
322	106	107	-40 03	1 23	1.00	0 00	0 44	0.19
323	106	107	-40 30	1 23	1.00	0 00	0 40	0.10
324	106	107	-0 03	1 03	1.00	0 00	0 11	0.01
325	106	107	-17 16	1 01	1.00	0 00	0 26	0.34
326	106	107	-27 07	1 04	1.00	0 00	0 21	0.10
327	106	107	-47 07	1 03	1.00	0 00	0 17	0.05
328	106	107	-10 29	1 06	1.00	0 00	0 27	0.10
329	106	107	-45 11	1 07	1.00	0 00	0 29	0.13
330	106	107	-29 09	1 09	1.00	0 00	0 24	0.22
331	106	107	74 00	1 17	1.00	0 00	0 40	0.16
332	106	107	-20 13	1 00	1.00	0 00	0 33	0.11
333	106	107	94 06	1 20	1.00	0 00	0 41	0.04
334	106	107	-29 76	1 09	1.00	0 00	0 34	0.20
335	106	107	124 73	1 40	1.00	0 00	0 09	0.76
336	106	107	-32 00	1 10	1.00	0 00	0 26	0.12
337	106	107	-124.73	1 10	1.00	0 00	0 00	0.76
338	106	107	-02.00	1 00	1.00	0 00	0 13	0.10
339	106	107	-61 06	1 11	1.00	0 00	0 19	0.23
340	106	107	-0 10	1 06	1.00	0 00	0 21	0.17
341	106	107	10 79	1 06	1.00	0 00	0 10	0.05
342	106	107	-10 75	1 06	1.00	0 00	0 10	0.00
343	106	107	-10 79	1 06	1.00	0 00	0 10	0.00
344	106	107	0 33	1 03	1.00	0 00	0 13	0.07
345	106	107	0 10	1 00	1.00	0 00	0 13	0.07
346	106	107	-03.06	1 03	1.00	0 00	0 13	0.07
347	106	107	-17 10	1 10	1.00	0 00	0 13	0.07
348	106	107	0 04	1 00	1.00	0 00	0 13	0.07
349	106	107	0 04	1 00	1.00	0 00	0 13	0.07
350	106	107	0 04	1 00	1.00	0 00	0 13	0.07
351	106	107	0 04	1 00	1.00	0 00	0 13	0.07
352	106	107	0 04	1 00	1.00	0 00	0 13	0.07
353	106	107	0 04	1 00	1.00	0 00	0 13	0.07
354	106	107	0 04	1 00	1.00	0 00	0 13	0.07
355	106	107	0 04	1 00	1.00	0 00	0 13	0.07
356	106	107	0 04	1 00	1.00	0 00	0 13	0.07
357	106	107	0 04	1 00	1.00	0 00	0 13	0.07
358	106	107	0 04	1 00	1.00	0 00	0 13	0.07
359	106	107	0 04	1 00	1.00	0 00	0 13	0.07
360	106	107	0 04	1 00	1.00	0 00	0 13	0.07
361	106	107	0 04	1 00	1.00	0 00	0 13	0.07
362	106	107	0 04	1 00	1.00	0 00	0 13	0.07
363	106	107	0 04	1 00	1.00	0 00	0 13	0.07
364	106	107	0 04	1 00	1.00	0 00	0 13	0.07
365	106	107	0 04	1 00	1.00	0 00	0 13	0.07
366	106	107	0 04	1 00	1.00	0 00	0 13	0.07
367	106	107	0 04	1 00	1.00	0 00	0 13	0.07
368	106	107	0 04	1 00	1.00	0 00	0 13	0.07
369	106	107	0 04	1 00	1.00	0 00	0 13	0.07
370	106	107	0 04	1 00	1.00	0 00	0 13	0.07
371	106	107	0 04	1 00	1.00	0 00	0 13	0.07
372	106	107	0 04	1 00	1.00	0 00	0 13	0.07
373	106	107	0 04	1 00	1.00	0 00	0 13	0.07
374	106	107	0 04	1 00	1.00	0 00	0 13	0.07
375	106	107	0 04	1 00	1.00	0 00	0 13	0.07
376	106	107	0 04	1 00	1.00	0 00	0 13	0.07
377	106	107	0 04	1 00	1.00	0 00	0 13	0.07
378	106	107	0 04	1 00	1.00	0 00	0 13	0.07
379	106	107	0 04	1 00	1.00	0 00	0 13	0.07
380	106	107	0 04	1 00	1.00	0 00	0 13	0.07
381	106	107	0 04	1 00	1.00	0 00	0 13	0.07
382	106	107	0 04	1 00	1.00	0 00	0 13	0.07
383	106	107	0 04	1 00	1.00	0 00	0 13	0.07
384	106	107	0 04	1 00	1.00	0 00	0 13	0.07
385	106	107	0 04	1 00	1.00	0 00	0 13	0.07
386	106	107	0 04	1 00	1.00	0 00	0 13	0.07
387	106	107	0 04	1 00	1.00	0 00	0 13	0.07
388	106	107	0 04	1 00	1.00	0 00	0 13	0.07
389	106	107	0 04	1 00	1.00	0 00	0 13	0.07
390	106	107	0 04	1 00	1.00	0 00	0 13	0.07
391	106	107	0 04	1 00	1.00	0 00	0 13	0.07
392	106	107	0 04	1 00	1.00	0 00	0 13	0.07
393	106	107	0 04	1 00	1.00	0 00	0 13	0.07
394	106	107	0 04	1 00	1.00	0 00	0 13	0.07
395	106	107	0 04	1 00	1.00	0 00	0 13	0.07
396	106	107	0 04	1 00	1.00	0 00	0 13	0.07
397	106	107	0 04	1 00	1.00	0 00	0 13	0.07
398	106	107	0 04	1 00	1.00	0 00	0 13	0.07
399	106	107	0 04	1 00	1.00	0 00	0 13	0.07
400	106	107	0 04	1 00	1.00	0 00	0 13	0.07
401	106	107	0 04	1 00	1.00	0 00	0 13	0.07
402	106	107	0 04	1 00	1.00	0 00	0 13	0.07
403	106	107	0 04	1 00	1.00	0 00	0 13	0.07
404	1							

564	331	246	27.02	0.01	3.01	0.00	0.31	1.01
565	332	307	31.04	0.00	3.01	0.01	0.31	0.07
566	333	103	11.94	0.01	1.01	0.01	0.16	0.02
567	334	330	10.71	0.01	1.01	0.01	0.12	0.02
568	335	331	-0.93	0.01	1.01	0.01	0.31	0.01
569	336	332	0.11	0.01	1.01	0.01	0.04	0.01
570	337	333	-0.75	0.01	1.01	0.01	0.31	0.01
571	338	334	11.46	0.01	1.01	0.01	0.19	0.01
572	339	335	-1.14	0.01	1.01	0.01	0.01	0.01
573	340	336	0.70	0.01	1.01	0.01	0.04	0.01
574	341	337	10.14	0.01	1.01	0.01	0.16	0.01
575	342	338	10.41	0.01	1.01	0.01	0.16	0.01
576	343	339	10.41	0.01	1.01	0.01	0.16	0.01
577	344	340	-10.69	0.01	1.01	0.01	0.16	0.01
578	345	341	10.69	0.01	1.01	0.01	0.16	0.01
579	346	342	10.69	0.01	1.01	0.01	0.16	0.01
580	347	343	10.69	0.01	1.01	0.01	0.16	0.01
581	348	344	10.69	0.01	1.01	0.01	0.16	0.01
582	349	345	10.69	0.01	1.01	0.01	0.16	0.01
583	350	346	10.69	0.01	1.01	0.01	0.16	0.01
584	351	347	10.69	0.01	1.01	0.01	0.16	0.01
585	352	348	10.69	0.01	1.01	0.01	0.16	0.01
586	353	349	10.69	0.01	1.01	0.01	0.16	0.01
587	354	350	10.69	0.01	1.01	0.01	0.16	0.01
588	355	351	10.69	0.01	1.01	0.01	0.16	0.01
589	356	352	10.69	0.01	1.01	0.01	0.16	0.01
590	357	353	10.69	0.01	1.01	0.01	0.16	0.01
591	358	354	10.69	0.01	1.01	0.01	0.16	0.01
592	359	355	10.69	0.01	1.01	0.01	0.16	0.01
593	360	356	10.69	0.01	1.01	0.01	0.16	0.01
594	361	357	10.69	0.01	1.01	0.01	0.16	0.01
595	362	358	10.69	0.01	1.01	0.01	0.16	0.01
596	363	359	10.69	0.01	1.01	0.01	0.16	0.01
597	364	360	10.69	0.01	1.01	0.01	0.16	0.01
598	365	361	10.69	0.01	1.01	0.01	0.16	0.01
599	366	362	10.69	0.01	1.01	0.01	0.16	0.01
600	367	363	10.69	0.01	1.01	0.01	0.16	0.01
601	368	364	10.69	0.01	1.01	0.01	0.16	0.01
602	369	365	10.69	0.01	1.01	0.01	0.16	0.01
603	370	366	10.69	0.01	1.01	0.01	0.16	0.01
604	371	367	10.69	0.01	1.01	0.01	0.16	0.01
605	372	368	10.69	0.01	1.01	0.01	0.16	0.01
606	373	369	10.69	0.01	1.01	0.01	0.16	0.01
607	374	370	10.69	0.01	1.01	0.01	0.16	0.01
608	375	371	10.69	0.01	1.01	0.01	0.16	0.01
609	376	372	10.69	0.01	1.01	0.01	0.16	0.01
610	377	373	10.69	0.01	1.01	0.01	0.16	0.01
611	378	374	10.69	0.01	1.01	0.01	0.16	0.01
612	379	375	10.69	0.01	1.01	0.01	0.16	0.01
613	380	376	10.69	0.01	1.01	0.01	0.16	0.01
614	381	377	10.69	0.01	1.01	0.01	0.16	0.01
615	382	378	10.69	0.01	1.01	0.01	0.16	0.01
616	383	379	10.69	0.01	1.01	0.01	0.16	0.01
617	384	380	10.69	0.01	1.01	0.01	0.16	0.01
618	385	381	10.69	0.01	1.01	0.01	0.16	0.01
619	386	382	10.69	0.01	1.01	0.01	0.16	0.01
620	387	383	10.69	0.01	1.01	0.01	0.16	0.01
621	388	384	10.69	0.01	1.01	0.01	0.16	0.01
622	389	385	10.69	0.01	1.01	0.01	0.16	0.01
623	390	386	10.69	0.01	1.01	0.01	0.16	0.01
624	391	387	10.69	0.01	1.01	0.01	0.16	0.01
625	392	388	10.69	0.01	1.01	0.01	0.16	0.01
626	393	389	10.69	0.01	1.01	0.01	0.16	0.01
627	394	390	10.69	0.01	1.01	0.01	0.16	0.01
628	395	391	10.69	0.01	1.01	0.01	0.16	0.01
629	396	392	10.69	0.01	1.01	0.01	0.16	0.01
630	397	393	10.69	0.01	1.01	0.01	0.16	0.01
631	398	394	10.69	0.01	1.01	0.01	0.16	0.01
632	399	395	10.69	0.01	1.01	0.01	0.16	0.01
633	400	396	10.69	0.01	1.01	0.01	0.16	0.01
634	401	397	10.69	0.01	1.01	0.01	0.16	0.01
635	402	398	10.69	0.01	1.01	0.01	0.16	0.01
636	403	399	10.69	0.01	1.01	0.01	0.16	0.01
637	404	400	10.69	0.01	1.01	0.01	0.16	0.01
638	405	401	10.69	0.01	1.01	0.01	0.16	0.01
639	406	402	10.69	0.01	1.01	0.01	0.16	0.01
640	407	403	10.69	0.01	1.01	0.01	0.16	0.01
641	408	404	10.69	0.01	1.01	0.01	0.16	0.01
642	409	405	10.69	0.01	1.01	0.01	0.16	0.01
643	410	406	10.69	0.01	1.01	0.01	0.16	0.01
644	411	407	10.69	0.01	1.01	0.01	0.16	0.01
645	412	408	10.69	0.01	1.01	0.01	0.16	0.01
646	413	409	10.69	0.01	1.01	0.01	0.16	0.01
647	414	410	10.69	0.01	1.01	0.01	0.16	0.01
648	415	411	10.69	0.01	1.01	0.01	0.16	0.01
649	416	412	10.69	0.01	1.01	0.01	0.16	0.01
650	417	413	10.69	0.01	1.01	0.01	0.16	0.01
651	418	414	10.69	0.01	1.01	0.01	0.16	0.01
652	419	415	10.69	0.01	1.01	0.01	0.16	0.01
653	420	416	10.69	0.01	1.01	0.01	0.16	0.01
654	421	417	10.69	0.01	1.01	0.01	0.16	0.01
655	422	418	10.69	0.01	1.01	0.01	0.16	0.01
656	423	419	10.69	0.01	1.01	0.01	0.16	0.01
657	424	420	10.69	0.01	1.01	0.01	0.16	0.01
658	425	421	10.69	0.01	1.01	0.01	0.16	0.01
659	426	422	10.69	0.01	1.01	0.01	0.16	0.01
660	427	423	10.69	0.01	1.01	0.01	0.16	0.01
661	428	424	10.69	0.01	1.01	0.01	0.16	0.01
662	429	425	10.69	0.01	1.01	0.01	0.16	0.01
663	430	426	10.69	0.01	1.01	0.01	0.16	0.01
664	431	427	10.69	0.01	1.01	0.01	0.16	0.01
665	432	428	10.69	0.01	1.01	0.01	0.16	0.01
666	433	429	10.69	0.01	1.01	0.01	0.16	0.01
667	434	430	10.69	0.01	1.01	0.01	0.16	0.01
668	435	431	10.69	0.01	1.01	0.01	0.16	0.01
669	436	432	10.69	0.01	1.01	0.01	0.16	0.01
670	437	433	10.69	0.01	1.01	0.01	0.16	0.01
671	438	434	10.69	0.01	1.01	0.01	0.16	0.01
672	439	435	10.69	0.01	1.01	0.01	0.16	0.01
673	440	436	10.69	0.01	1.01	0.01	0.16	0.01
674	441	437	10.69	0.01	1.01	0.01	0.16	0.01
675	442	438	10.69	0.01	1.01	0.01	0.16	0.01
676	443	439	10.69	0.01	1.01	0.01	0.16	0.01
677	444	440	10.69	0.01	1.01	0.01	0.16	0.01
678	445	441	10.69	0.01	1.01	0.01	0.16	0.01
679	446	442	10.69	0.01	1.01	0.01	0.16	0.01
680	447	443	10.69	0.01	1.01	0.01	0.16	0.01
681	448	444	10.69	0.01	1.01	0.01	0.16	0.01
682	449	445	10.69	0.01	1.01	0.01	0.16	0.01
683	450	446	10.69	0.01	1.01	0.01	0.16	0.01
684	451	447	10.69	0.01	1.01	0.01	0.16	0.01
685	452	448	10.69	0.01	1.01	0.01	0.16	0.01
686	453	449	10.69	0.01	1.01	0.01	0.16	0.01
687	454	450	10.69	0.01	1.01	0.01	0.16	0.01
688	455	451	10.69	0.01	1.01	0.01	0.16	0.01
689	456	452	10.69	0.01	1.01	0.01	0.16	0.01
690	457	453	10.69	0.01	1.01	0.01	0.16	0.01
691	458	454	10.69	0.01	1.01	0.01	0.16	0.01
692	459	455	10.69	0.01	1.01	0.01	0.16	0.01
693	460	456	10.69	0.01	1.01	0.01	0.16	0.01
694	461	457	10.69	0.01	1.01	0.01	0.16	0.01
695	462	458	10.69	0.01	1.01	0.01	0.16	0.01
696	463	459	10.69	0.01	1.01	0.01	0.16	0.01
697	464	460	10.69	0.01	1.01	0.01	0.16	0.01
698	465	461	10.69	0.01	1.01	0.01	0.16	0.01
699	466	462	10.69	0.01	1.01	0.01	0.16	0.01
700	467	463	10.69	0.01	1.01	0.01	0.16	0.01

828-KSP	826	819							
829-KSP	826	819							
835-VZ	826	819	4114 54	2.34	178.35	510	0.20	4.43	3.43
811	427	428	-4134 54	4.17	0.20		0.20	4.43	3.43
809	600	700	2876 55	31.97	0.20		0.20	7.91	4.23
815-VZ	700	711	2876 55	1.17	0.10		0.20	3.01	4.26
811-VZ	711	739							
813-KP	700	701							
813-KA	701	701							
814-PC	701	701	-212 55	0.00	0.00		0.20	0.48	0.13

JUNCTION NODE RESULTS

JUNCTION NUMBER	JUNCTION TITLE	EXTERNAL DEMAND lpm	HYDRAULIC GRADE (ft)	JUNCTION ELEVATION (ft)	PRESSURE HEAD (ft)	JUNCTION PRESSURE (psf)
1		1.00	4028.97	3964.28	121.97	52.86
2		1.00	4028.94	3912.20	124.94	54.16
3		27.40	4028.75	3919.20	124.70	51.92
4		82.24	4028.24	3929.20	120.24	49.72
5		54.72	4028.26	3937.20	120.26	48.01
6		42.16	4028.26	3920.20	124.26	56.71
7		8.88	4028.39	3897.60	129.39	58.07
8		12.46	4028.40	3898.00	128.40	56.84
9		7.60	4028.79	3898.00	128.79	56.81
10		4.20	4028.97	3920.00	126.97	55.12
11		4.00	4028.99	3907.20	119.99	51.89
12		3.60	4029.04	3907.20	120.04	52.02
13		3.43	4029.07	3908.20	119.07	50.86
14		2.48	4029.14	3908.20	118.14	49.97
15		0.20	4029.20	3898.20	118.20	49.99
16		0.20	4029.74	3898.20	117.74	49.09
17		1.00	4029.72	3898.20	117.72	49.08
18		12.32	4029.43	3897.20	119.43	54.12
19		7.60	4029.20	3897.20	119.20	54.12
20		7.60	4029.20	3898.20	119.20	54.12
21		15.74	4029.63	3898.20	119.63	54.91
22		11.00	4029.66	3898.20	119.66	54.94
23		62.30	4029.64	3898.20	119.64	54.92
24		21.10	4029.69	3898.20	119.69	54.97
25		5.88	4029.71	3898.20	119.71	55.01
26		4.00	4029.71	3898.20	119.71	55.01
27		3.60	4029.71	3898.20	119.71	55.01
28		3.60	4029.71	3898.20	119.71	55.01
29		3.60	4029.71	3898.20	119.71	55.01
30		3.60	4029.71	3898.20	119.71	55.01
31		3.60	4029.71	3898.20	119.71	55.01
32		3.60	4029.71	3898.20	119.71	55.01
33		3.60	4029.71	3898.20	119.71	55.01
34		3.60	4029.71	3898.20	119.71	55.01
35		3.60	4029.71	3898.20	119.71	55.01
36		3.60	4029.71	3898.20	119.71	55.01
37		3.60	4029.71	3898.20	119.71	55.01
38		3.60	4029.71	3898.20	119.71	55.01
39		3.60	4029.71	3898.20	119.71	55.01
40		3.60	4029.71	3898.20	119.71	55.01
41		3.60	4029.71	3898.20	119.71	55.01
42		3.60	4029.71	3898.20	119.71	55.01
43		3.60	4029.71	3898.20	119.71	55.01
44		3.60	4029.71	3898.20	119.71	55.01
45		3.60	4029.71	3898.20	119.71	55.01
46		3.60	4029.71	3898.20	119.71	55.01
47		3.60	4029.71	3898.20	119.71	55.01
48		3.60	4029.71	3898.20	119.71	55.01
49		3.60	4029.71	3898.20	119.71	55.01
50		3.60	4029.71	3898.20	119.71	55.01
51		3.60	4029.71	3898.20	119.71	55.01
52		3.60	4029.71	3898.20	119.71	55.01
53		3.60	4029.71	3898.20	119.71	55.01
54		3.60	4029.71	3898.20	119.71	55.01
55		3.60	4029.71	3898.20	119.71	55.01
56		3.60	4029.71	3898.20	119.71	55.01
57		3.60	4029.71	3898.20	119.71	55.01
58		3.60	4029.71	3898.20	119.71	55.01
59		3.60	4029.71	3898.20	119.71	55.01
60		3.60	4029.71	3898.20	119.71	55.01
61		3.60	4029.71	3898.20	119.71	55.01
62		3.60	4029.71	3898.20	119.71	55.01
63		3.60	4029.71	3898.20	119.71	55.01
64		3.60	4029.71	3898.20	119.71	55.01
65		3.60	4029.71	3898.20	119.71	55.01
66		3.60	4029.71	3898.20	119.71	55.01
67		3.60	4029.71	3898.20	119.71	55.01
68		3.60	4029.71	3898.20	119.71	55.01
69		3.60	4029.71	3898.20	119.71	55.01
70		3.60	4029.71	3898.20	119.71	55.01
71		3.60	4029.71	3898.20	119.71	55.01
72		3.60	4029.71	3898.20	119.71	55.01

0.	3 30	4910.12	3076 00	153 12	65 55
01	3 00	4911 11	3076 01	152 11	65 50
02	00.40	4912 59	3076 02	151 59	65 46
03	7.00	4913 94	3076 03	151 94	65 41
04	6.20	4914 94	3076 04	151 94	65 41
05	45.20	4915 94	3076 05	151 94	65 41
06	4 30	4916 93	3076 06	151 93	65 40
07	6 30	4917 93	3076 07	151 93	65 40
08	1 20	4918 68	3076 08	151 68	65 36
09	1 20	4919 92	3076 09	151 92	65 40
10	47 80	4920 34	3076 10	151 34	65 36
11	306 34	4921 66	3076 11	151 66	65 42
12	31 10	4922 30	3076 12	151 30	65 36
13	2 00	4923 74	3076 13	151 74	65 40
14	418 00	4924 07	3076 14	151 07	65 36
15	42 30	4925 40	3076 15	151 40	65 42
16	21.70	4926 39	3076 16	151 39	65 40
17	2 00	4927 35	3076 17	151 35	65 36
18	4 20	4928 66	3076 18	151 66	65 42
19	9 07	4929 80	3076 19	151 80	65 46
20	3 00	4930 30	3076 20	151 30	65 36
21	3 00	4931 30	3076 21	151 30	65 36
22	3.00	4932 04	3076 22	151 04	65 36
23	2.00	4933 04	3076 23	151 04	65 36
24	42 30	4934 01	3076 24	151 01	65 36
25	46 00	4935 91	3076 25	151 91	65 42
26	44 37	4936 97	3076 26	151 97	65 46
27	42 30	4937 01	3076 27	151 01	65 36
28	1 30	4938 01	3076 28	151 01	65 36
29	1 30	4939 33	3076 29	151 33	65 42
30	3 00	4940 01	3076 30	151 01	65 36
31	31.10	4941 47	3076 31	151 47	65 42
32	2.30	4942 04	3076 32	151 04	65 36
33	0.30	4943 47	3076 33	151 47	65 42
34	7.60	4944 52	3076 34	151 52	65 46
35	1.30	4945 33	3076 35	151 33	65 36
36	4.30	4946 34	3076 36	151 34	65 36
37	0.99	4947 04	3076 37	151 04	65 36
38	1 00	4948 03	3076 38	151 03	65 36
39	3.00	4949 01	3076 39	151 01	65 36
40	3 00	4950 01	3076 40	151 01	65 36
41	6.04	4951 02	3076 41	151 02	65 36
42	6 00	4952 01	3076 42	151 01	65 36
43	55 78	4953 17	3076 43	151 17	65 42
44	1 20	4954 04	3076 44	151 04	65 36
45	11 40	4955 12	3076 45	151 12	65 36
46	2 40	4956 37	3076 46	151 37	65 42
47	3 00	4957 39	3076 47	151 39	65 42
48	10.00	4958 47	3076 48	151 47	65 46
49	1 00	4959 04	3076 49	151 04	65 36
50	3 00	4960 41	3076 50	151 41	65 46
51	1 00	4961 41	3076 51	151 41	65 46
52	1 00	4962 39	3076 52	151 39	65 42
53	2 00	4963 37	3076 53	151 37	65 42
54	2 00	4964 31	3076 54	151 31	65 42
55	4 00	4965 39	3076 55	151 39	65 42
56	9.50	4966 33	3076 56	151 33	65 42
57	4 30	4967 07	3076 57	151 07	65 36
58	223.30	4968 70	3076 58	151 70	65 42
59	2.10	4969 07	3076 59	151 07	65 36
60	51 79	4970 41	3076 60	151 41	65 46
61	24 32	4971 71	3076 61	151 71	65 46
62	7.60	4972 00	3076 62	151 00	65 36
63	3.04	4973 04	3076 63	151 04	65 36
64	0 30	4974 04	3076 64	151 04	65 36
65	0 30	4975 11	3076 65	151 11	65 36
66	0 30	4976 06	3076 66	151 06	65 36
67	1 20	4977 21	3076 67	151 21	65 42
68	1 20	4978 14	3076 68	151 14	65 42
69	8 00	4979 09	3076 69	151 09	65 42
70	12 00	4980 01	3076 70	151 01	65 36
71	18 00	4981 02	3076 71	151 02	65 36
72	4 20	4982 01	3076 72	151 01	65 36
73	4 00	4983 09	3076 73	151 09	65 42
74	408 70	4984 57	3076 74	151 57	65 46
75	128 50	4985 12	3076 75	151 12	65 36
76	04 40	4986 54	3076 76	151 54	65 46
77	0 00	4987 02	3076 77	151 02	65 36
78	43 30	4988 10	3076 78	151 10	65 36
79	4 00	4989 76	3076 79	151 76	65 42
80	43 40	4990 46	3076 80	151 46	65 42
81	16 30	4991 31	3076 81	151 31	65 42
82	3 00	4992 01	3076 82	151 01	65 36
83	4 10	4993 04	3076 83	151 04	65 36
84	3 40	4994 14	3076 84	151 14	65 42
85	1 20	4995 20	3076 85	151 20	65 42
86	1 20	4996 33	3076 86	151 33	65 42
87	1 20	4997 33	3076 87	151 33	65 42
88	1 20	4998 33	3076 88	151 33	65 42
89	1 20	4999 33	3076 89	151 33	65 42
90	1 20	5000 33	3076 90	151 33	65 42
91	1 20	5001 33	3076 91	151 33	65 42
92	1 20	5002 33	3076 92	151 33	65 42
93	1 20	5003 33	3076 93	151 33	65 42
94	1 20	5004 33	3076 94	151 33	65 42
95	1 20	5005 33	3076 95	151 33	65 42
96	1 20	5006 33	3076 96	151 33	65 42
97	1 20	5007 33	3076 97	151 33	65 42
98	1 20	5008 33	3076 98	151 33	65 42
99	1 20	5009 33	3076 99	151 33	65 42
100	1 20	5010 33	3076 100	151 33	65 42

150	2.32	4629 13	3877 95	181.32	48 46
161	3.09	4627 88	3876 29	181.89	53 87
162	64.53	4630 42	3880 03	183 63	53 27
163	1.32	4630 78	3882 50	180 78	61 47
166	2.73	4631 31	3885 50	186.31	61 76
168	1.00	4631 60	3889 50	184.00	62 23
169	4.17	4631 91	3893 50	188 31	62 18
167	6.00	4632 03	3895 50	187 00	59 37
168	0.53	4632 19	3896 50	187 16	59 42
169	0.09	4632 32	3897 50	187 32	61 67
170	0.19	4632 97	3898 50	188 99	62 93
171	1.00	4632 19	3899 00	188 19	62 69
172	4.00	4632 19	3899.06	187 19	63 78
173	0.00	4633 85	3895 90	186 85	64 42
174	0.90	4634 05	3896 00	189 05	64 09
175	0.00	4632 51	3896 90	188 51	64 16
176	62.00	4633 47	3897 00	189 47	64 43
177	0.00	4633 95	3897 00	189 95	64 66
178	71.46	4632 97	3897 00	181.37	63 38
179	43 35	4633 14	3898 00	183.14	64 16
180	42.20	4632 84	3897 00	183.84	63 80
201	1.00	4633 60	3897 00	183 60	60 84
202	3.00	4633 87	3897 00	186 87	67 98
203	9.00	4633 60	3897 00	187 60	68 30
204	40.00	4633 70	3897 00	180 70	63 30
213	1.20	4634 43	3897 00	181.03	61 74
216	0.00	4634 61	3897 00	181 00	63 70
217	1.20	4634 87	3897 00	182 00	63 30
218	1.20	4634 16	3897 00	182 16	61 94
219	1.20	4634 27	3897 00	181 27	61 67
220	1.20	4634 64	3897 00	180 64	61 41
221	3.00	4634 84	3897 00	180 84	61 26
222	3.00	4634 84	3897 00	180 84	61 26
223	3.00	4634 84	3897 00	180 84	61 26
224	3.00	4634 84	3897 00	180 84	61 26
225	3.00	4634 84	3897 00	180 84	61 26
226	3.00	4634 84	3897 00	180 84	61 26
227	3.00	4634 84	3897 00	180 84	61 26
228	3.00	4634 84	3897 00	180 84	61 26
229	3.00	4634 84	3897 00	180 84	61 26
230	3.00	4634 84	3897 00	180 84	61 26
231	3.00	4634 84	3897 00	180 84	61 26
232	3.00	4634 84	3897 00	180 84	61 26
233	3.00	4634 84	3897 00	180 84	61 26
234	3.00	4634 84	3897 00	180 84	61 26
235	3.00	4634 84	3897 00	180 84	61 26
236	3.00	4634 84	3897 00	180 84	61 26
237	3.00	4634 84	3897 00	180 84	61 26
238	3.00	4634 84	3897 00	180 84	61 26
239	3.00	4634 84	3897 00	180 84	61 26
240	3.00	4634 84	3897 00	180 84	61 26
241	3.00	4634 84	3897 00	180 84	61 26
242	3.00	4634 84	3897 00	180 84	61 26
243	3.00	4634 84	3897 00	180 84	61 26
244	3.00	4634 84	3897 00	180 84	61 26
245	3.00	4634 84	3897 00	180 84	61 26
246	3.00	4634 84	3897 00	180 84	61 26
247	3.00	4634 84	3897 00	180 84	61 26
248	3.00	4634 84	3897 00	180 84	61 26
249	3.00	4634 84	3897 00	180 84	61 26
250	3.00	4634 84	3897 00	180 84	61 26

249	1.20	4031.03	3874.00	157.01	43.19
250	1.00	4031.98	3873.00	158.99	43.00
251	1.00	4032.07	3876.00	158.07	47.43
252	0.00	4032.05	3876.00	158.05	47.42
253	0.00	4031.75	3878.00	158.75	47.93
254	0.00	4031.04	3874.00	157.04	48.30
255	1.00	4031.03	3873.00	158.03	48.76
256	197.00	4031.67	3870.00	155.67	48.79
257	0.00	4031.30	3873.00	148.30	44.31
258	0.00	4031.07	3875.00	146.07	43.70
259	0.00	4031.78	3870.00	147.78	42.30
260	0.00	4031.04	3870.00	141.04	41.16
261	18.00	4031.07	3876.00	144.07	42.41
262	18.24	4031.00	3880.00	138.00	40.01
263	22.00	4037.38	3890.00	127.38	35.15
264	0.00	4037.00	3891.00	126.00	34.63
265	0.00	4034.00	3894.00	120.00	32.31
266	12.16	4030.00	3899.00	113.00	40.02
267	6.70	3999.00	3890.00	39.00	12.57
268	17.00	4030.00	3895.00	135.00	47.36
269	7.00	4030.00	3890.00	130.00	49.52
270	12.16	4030.00	3890.00	130.00	49.52
271	12.16	4030.00	3890.00	130.00	41.08
272	12.16	4030.00	3890.00	130.00	39.12
273	12.16	4030.00	3890.00	130.00	71.66
274	22.00	4030.00	3890.00	130.00	42.54
275	10.00	4030.00	3890.00	130.00	49.02
276	0.00	4030.00	3890.00	130.00	41.00
277	0.00	4030.00	3890.00	130.00	40.17
278	1.00	4030.00	3890.00	130.00	40.30
279	1.00	4030.00	3890.00	130.00	40.00
280	1.00	4030.00	3890.00	130.00	40.00
281	1.00	4030.00	3890.00	130.00	40.00
282	1.00	4030.00	3890.00	130.00	40.00
283	1.00	4030.00	3890.00	130.00	40.00
284	1.00	4030.00	3890.00	130.00	40.00
285	1.00	4030.00	3890.00	130.00	40.00
286	1.00	4030.00	3890.00	130.00	40.00
287	1.00	4030.00	3890.00	130.00	40.00
288	1.00	4030.00	3890.00	130.00	40.00
289	1.00	4030.00	3890.00	130.00	40.00
290	1.00	4030.00	3890.00	130.00	40.00
291	1.00	4030.00	3890.00	130.00	40.00
292	1.00	4030.00	3890.00	130.00	40.00
293	1.00	4030.00	3890.00	130.00	40.00
294	1.00	4030.00	3890.00	130.00	40.00
295	1.00	4030.00	3890.00	130.00	40.00
296	1.00	4030.00	3890.00	130.00	40.00
297	1.00	4030.00	3890.00	130.00	40.00
298	1.00	4030.00	3890.00	130.00	40.00
299	1.00	4030.00	3890.00	130.00	40.00
300	1.00	4030.00	3890.00	130.00	40.00
301	1.00	4030.00	3890.00	130.00	40.00
302	1.00	4030.00	3890.00	130.00	40.00
303	1.00	4030.00	3890.00	130.00	40.00
304	1.00	4030.00	3890.00	130.00	40.00
305	1.00	4030.00	3890.00	130.00	40.00
306	1.00	4030.00	3890.00	130.00	40.00
307	1.00	4030.00	3890.00	130.00	40.00
308	1.00	4030.00	3890.00	130.00	40.00
309	1.00	4030.00	3890.00	130.00	40.00
310	1.00	4030.00	3890.00	130.00	40.00
311	1.00	4030.00	3890.00	130.00	40.00
312	1.00	4030.00	3890.00	130.00	40.00
313	1.00	4030.00	3890.00	130.00	40.00
314	1.00	4030.00	3890.00	130.00	40.00
315	1.00	4030.00	3890.00	130.00	40.00
316	1.00	4030.00	3890.00	130.00	40.00
317	1.00	4030.00	3890.00	130.00	40.00
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328	1.00	4030.00	3890.00	130.00	40.00
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343	1.00	4030.00	3890.00	130.00	40.00
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348	1.00	4030.00	3890.00	130.00	40.00
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353	1.00	4030.00	3890.00	130.00	40.00
354	1.00	4030.00	3890.00	130.00	40.00
355	1.00	4030.00	3890.00	130.00	40.00
356	1.00	4030.00	3890.00	130.00	40.00
357	1.00	4030.00	3890.00	130.00	40.00
358	1.00	4030.00	3890.00	130.00	40.00
359	1.00	4030.00	3890.00	130.00	40.00
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361	1.00	4030.00	3890.00	130.00	40.00
362	1.00	4030.00	3890.00	130.00	40.00
363	1.00	4030.00	3890.00	130.00	40.00
364	1.00	4030.00	3890.00	130.00	40.00
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366	1.00	4030.00	3890.00	130.00	40.00
367	1.00	4030.00	3890.00	130.00	40.00
368	1.00	4030.00	3890.00	130.00	40.00
369	1.00	4030.00	3890.00	130.00	40.00
370	1.00	4030.00	3890.00	130.00	40.00
371	1.00	4030.00	3890.00	130.00	40.00

378	16.24	4210.22	6140 00	70 23	36.43
379	17 16	4276 34	6183 00	95 34	41 31
380	17 16	4276 40	6183 00	84 40	37 44
381	17 80	4221 06	3870 00	151 06	65 06
382	0 00	4229 25	3872 00	157 25	68 16
383	0 00	4221 97	3871 00	154 97	67 15
384	0 00	4231 48	3873 00	158 48	68 47
385	0 00	4231 36	3871 00	157 36	67 36
386	0 00	4231 43	3874 00	157 43	68 22
387	0 00	4231 46	3879 00	157 46	68 22
388	0 00	4231 50	3877 00	154 50	66 25
389	0 00	4231 54	3871 00	157 54	67 32
390	0 00	4231 63	3871 00	151 63	67 27
391	0 00	4231 30	3873 00	158 30	68 44
392	0 00	4232 06	3880 00	152 06	67 08
393	0 00	4232 44	3880 00	152 44	68 26
394	0 00	4232 33	3880 00	152 33	68 13
395	0 00	4232 74	3880 00	157 74	68 22
396	0 00	4232 70	3880 00	157 70	68 06
397	0 00	4231 30	3887 00	164 30	67 32
398	0 00	4232 30	3889 00	164 30	68 09
399	0 00	4233 30	3889 00	164 30	68 09
400	0 00	4232 91	3889 00	162 91	67 36
401	0 00	4232 30	3884 00	158 30	66 22
402	0 00	4233 02	3884 00	159 02	66 24
403	0 00	4233 01	3886 00	157 01	66 27
404	0 00	4233 05	3886 00	158 05	66 21
405	0 00	4233 11	3886 00	152 11	66 07
406	0 00	4234 11	3886 00	154 11	67 27
407	0 00	4234 11	3886 00	154 11	67 27
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472	0 00	4234 11	3886 00	154 11	67 27
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497	0 00	4234 11	3886 00	154 11	67 27
498	0 00	4234 11	3886 00	154 11	67 27
499	0 00	4234 11	3886 00	154 11	67 27
500	0 00	4234 11	3886 00	154 11	67 27

MAXIMUM AND MINIMUM VALUES PRESSURES

JUNCTION NUMBER	MAXIMUM PRESSURE (psi)	JUNCTION NUMBER	MINIMUM PRESSURE (psi)
323	97.64	388	2.02
428	87.22	333	5.10
427	84.87	310	5.70
574	82.11	738	6.54
364	77.20	363	8.36

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
167	39.92	423	0.50
168	43.64	333	0.80
818	36.48	321	0.80
699	36.20	688	0.30
608	32.43	688	0.50

REGULATING VALVE REPORT

VALVE LABEL	VALVE TYPE	POSITION NODE	CONTROLLING PIPE	VALVE SETTING (% OF SP)	VALVE STATUS	UPSTREAM TRACE (ft)	DOWNSTREAM TRACE (ft)	THROUGH FLOW (gpm)	
81	PRV	1	364	647	4219.40	THROTTLED	4270 14	4210 40	150 24

SUMMARY OF INFLOWS AND OUTFLOWS

(1) INFLOWS INTO THE SYSTEM FROM FIXED GRADE MODELS
(2) OUTFLOWS FROM THE SYSTEM INTO FIXED GRADE MODELS

NO. OF LANES	PIPE NUMBER	FLOWRATE (gpm)	MODEL TITLE
EC	107	1864.76	TRUCK 7050
ED	353	-2386.04	TRUCK 7080
EN	443	-1648.17	TRUCK 7241
ET	364	934.63	TRUCK 7241
EU	478	193.94	TRUCK 7775
EV	418	4228.10	TRUCK 1316
EW	637	4228.23	TRUCK 1339
EX	614	4334.34	TRUCK 3190, PL. 07
EY	617	-1676.05	TRUCK 7030
EZ	314	212.66	TRUCK 7130

CHANGES FOR NEXT SIMULATION
DEMAND CHANGES

DEMAND TYPE = 1 - CEF = 1.700

PIPE PARAMETER CHANGES

STATUS CODE	XX - CLOSED PIPE CV - CHECK VALVE	PG - FIXED GRADE NODE BV - REGULATING VALVE	PJ - PUMP LINE			
PIPE NUMBER	NODE NO 01 02	LENGTH (FEET)	DIAMETER (IN)	ROUGHNESS COEFF	MINOR LOSS COEFF	PCW-MOD (FEET)
023-PU	023 024	70.0	14.0	125.00	1.00	0.00
THE PIPE IDENTIFYING NUMBER (ID) = 12						
010-PU	023 022	75.0	16.0	120.00	4.00	0.00
THE PIPE IDENTIFYING NUMBER (ID) = 11						

SIMULATION RESULTS

THE RESULTS ARE OBTAINED AFTER 6 TITLES WITH AN ACCURACY = 0.0010

PIPELINE RESULTS

STATUS CODE	XX - CLOSED PIPE CV - CHECK VALVE	PG - FIXED GRADE NODE BV - REGULATING VALVE	PJ - PUMP LINE TR - STORAGE TANK					
PIPE NUMBER	NODE NOS 01 02	FLOWRATE (GPM)	HEAD LOSS (FEET)	PUMP HEAD (FEET)	PUMP EARTH	MINOR LOSS (FEET)	PIPE LOSS (FEET)	SL/ 1000 (FEET)
1	1 2	22.45	0.07	0.00	0.00	0.00	0.25	0.07
2	2 3	31.42	0.03	0.00	0.00	0.00	0.50	0.03
3	3 4	205.20	0.10	0.00	0.00	0.00	1.19	0.20
4	4 5	19.69	0.04	0.00	0.00	0.00	0.22	0.04
5	5 6	14.57	0.03	0.00	0.00	0.00	0.17	0.03
6	6 7	9.47	0.01	0.00	0.00	0.00	0.11	0.01
7	7 8	146.39	0.36	0.00	0.00	0.00	1.12	0.06
8	8 9	143.04	0.30	0.00	0.00	0.00	1.17	0.06
9	9 10	142.37	0.34	0.00	0.00	0.00	0.64	0.03
10	10 11	32.33	0.09	0.00	0.00	0.00	0.17	0.03
11	11 12	24.49	0.05	0.00	0.00	0.00	0.10	0.02
12	12 13	12.04	0.04	0.00	0.00	0.00	0.14	0.04
13	13 14	31.61	0.06	0.00	0.00	0.00	0.16	0.04
14	14 15	142.44	1.00	0.00	0.00	0.00	1.91	0.04
15	15 16	0.38	0.01	0.00	0.00	0.00	0.10	0.01
16	16 17	139.13	0.29	0.00	0.00	0.00	0.45	0.03
17	17 18	87.59	0.43	0.00	0.00	0.00	0.65	0.04
18	18 19	41.71	0.33	0.00	0.00	0.00	0.64	0.04
19	19 20	41.41	0.10	0.00	0.00	0.00	0.76	0.01
20	20 21	72.67	0.26	0.00	0.00	0.00	0.86	0.03
21	21 22	94.71	0.26	0.00	0.00	0.00	0.42	0.03
22	22 23	94.71	0.26	0.00	0.00	0.00	0.44	0.03
23	23 24	60.01	0.25	0.00	0.00	0.00	0.34	0.03
24	24 25	144.70	1.47	0.00	0.00	0.00	1.34	0.03
25	25 26	187.00	0.11	0.00	0.00	0.00	1.27	0.03
26	26 27	262.17	0.03	0.00	0.00	0.00	1.61	0.03
27	27 28	327.49	0.02	0.00	0.00	0.00	0.92	0.03
28	28 29	143.44	0.19	0.00	0.00	0.00	0.73	0.04
29	29 30	137.70	0.16	0.00	0.00	0.00	0.28	0.03
30	30 31	43.49	0.21	0.00	0.00	0.00	0.67	0.03
31	31 32	50.95	0.21	0.00	0.00	0.00	0.51	0.04
32	32 33	44.69	0.15	0.00	0.00	0.00	0.17	0.04
33	33 34	14.77	0.06	0.00	0.00	0.00	0.41	0.03
34	34 35	36.03	0.14	0.00	0.00	0.00	0.23	0.03
35	35 36	19.70	0.01	0.00	0.00	0.00	0.41	0.03
36	36 37	39.83	0.07	0.00	0.00	0.00	0.41	0.03
37	37 38	21.04	0.02	0.00	0.00	0.00	0.44	0.03
38	38 39	33.74	0.01	0.00	0.00	0.00	0.32	0.03
39	39 40	94.80	0.04	0.00	0.00	0.00	0.42	0.04
40	40 41	437.74	0.14	0.00	0.00	0.00	1.26	0.03
41	41 42	234.79	0.14	0.00	0.00	0.00	1.02	0.04
42-2X73	42 43	071.42	0.21	0.00	0.00	0.00	1.42	0.03
43	43 44	70.40	0.14	0.00	0.00	0.00	0.50	0.03
44	44 45	140.12	0.04	0.00	0.00	0.00	0.61	0.03
45	45 46	203.14	0.12	0.00	0.00	0.00	0.45	0.03
46	46 47	203.43	0.01	0.00	0.00	0.00	0.09	0.03
47	47 48	10.41	0.04	0.00	0.00	0.00	0.28	0.03
48	48 49	24.06	0.00	0.00	0.00	0.00	0.20	0.03
49	49 50	47.74	0.11	0.00	0.00	0.00	0.46	0.03
50	50 51	19.49	0.03	0.00	0.00	0.00	0.13	0.03
51	51 52	139.49	0.06	0.00	0.00	0.00	0.46	0.03
52	52 53	132.10	0.06	0.00	0.00	0.00	0.16	0.03
53	53 54	11.71	0.03	0.00	0.00	0.00	0.03	0.03

89	22	43	-47.99	0.10	0.00	0.00	0.00	0.25
90	44	43	63.35	0.44	0.00	0.00	0.78	1.03
91	44	43	51.48	0.43	0.00	0.00	0.98	0.61
92	45	42	16.47	0.01	0.00	0.00	0.10	0.11
93	40	34	-247.72	1.42	0.00	0.00	1.97	1.47
94	39	28	179.90	0.08	0.00	0.00	1.14	0.87
95	34	17	-62.82	0.11	0.00	0.00	0.43	0.13
96	34	17	69.88	0.11	0.00	0.00	0.45	0.14
97	34	14	38.36	0.09	0.00	0.00	0.68	0.40
98	34	14	76.36	0.28	0.00	0.00	0.45	0.14
99	34	14	146.94	0.47	0.00	0.00	0.45	0.28
100	51	39	781.12	0.35	0.00	0.00	1.20	0.37
101	51	39	-141.95	0.44	0.00	0.00	1.03	0.47
102	50	41	-121.16	0.54	0.00	0.00	0.89	0.42
103	47	48	117.39	0.57	0.00	0.00	0.48	0.19
104	46	44	71.46	0.41	0.00	0.00	0.41	1.11
105	46	47	130.66	0.97	0.00	0.00	0.06	0.00
106	44	43	-84.23	1.92	0.00	0.00	0.96	0.02
107	43	44	138.97	1.01	0.00	0.00	0.09	0.03
108	74	76	11.36	0.19	0.00	0.00	0.16	0.09
109	74	40	-13.66	1.01	0.00	0.00	0.60	0.91
110	48	45	77.16	0.07	0.00	0.00	0.49	0.17
111	43	49	81.44	0.10	0.00	0.00	0.33	0.15
112	44	43	37.67	0.08	0.00	0.00	0.34	0.08
113	44	44	-84.23	2.02	0.00	0.00	0.48	1.10
114	44	47	-84.15	0.03	0.00	0.00	0.26	0.06
115	43	44	-348.42	0.00	0.00	0.00	1.41	1.40
116	46	47	-449.94	0.01	0.00	0.00	1.01	2.71
117	44	73	98.24	2.23	0.00	0.00	1.08	1.00
118	73	72	-256.17	0.47	0.00	0.00	0.04	21.00
119	73	124	-141.76	1.61	0.00	0.00	0.04	1.03
120	73	124	-123.76	1.01	0.00	0.00	1.40	3.06
121	127	124	143.88	0.06	0.00	0.00	1.61	4.04
122	123	124	192.74	3.62	0.00	0.00	1.71	4.08
123	123	76	87.41	0.79	0.00	0.00	2.67	0.08
124	73	76	-233.61	1.29	0.00	0.00	2.44	0.04
125	76	77	-172.48	2.13	0.00	0.00	1.91	3.09
126	77	67	368.77	0.08	0.00	0.00	1.18	0.07
127	77	78	-161.62	0.07	0.00	0.00	1.02	1.23
128	78	69	847.11	1.18	0.00	0.00	1.61	1.35
129	67	68	-210.20	0.37	0.00	0.00	1.04	0.03
130	44	63	-20.17	0.09	0.00	0.00	0.32	0.20
131	44	63	363.57	0.31	0.00	0.00	0.97	0.07
132	48	69	-72.44	0.04	0.00	0.00	0.30	0.09
133	43	59	36.19	0.19	0.00	0.00	2.26	0.17
134	63	61	266.25	0.13	0.00	0.00	0.76	0.24
135	61	63	13.10	0.02	0.00	0.00	0.18	0.08
136	41	60	138.86	0.37	0.00	0.00	1.39	3.11
137	40	40	78.54	0.04	0.00	0.00	0.33	0.00
138	49	60	50.48	0.36	0.00	0.00	0.67	3.50
139	49	47	46.19	0.01	0.00	0.00	0.19	0.07
140	47	49	37.66	0.03	0.00	0.00	0.31	0.19
141	47	49	27.14	0.09	0.00	0.00	0.22	3.19
142	59	88	1.47	0.39	0.00	0.00	1.02	3.00
143	10	88	121.44	0.07	0.00	0.00	0.04	0.44
144	45	86	113.48	0.27	0.00	0.00	0.75	0.22
145	34	86	95.51	0.18	0.00	0.00	0.67	0.23
146	81	84	-781.63	0.37	0.00	0.00	1.10	3.37
147	83	84	40.13	0.16	0.00	0.00	0.42	0.12
148	83	72	-48.14	0.13	0.00	0.00	0.42	0.12
149	84	72	-446.78	0.33	0.00	0.00	1.10	0.11
150	71	72	19.13	0.09	0.00	0.00	0.10	0.01
151	72	80	-50.31	0.03	0.00	0.00	0.19	0.00
152	71	67	-781.61	0.16	0.00	0.00	1.12	0.33
153	85	81	42.67	0.08	0.00	0.00	0.27	0.04
154	81	86	132.12	0.28	0.00	0.00	0.14	0.14
155	79	89	37.39	0.24	0.00	0.00	0.42	0.13
156	70	89	18.14	0.15	0.00	0.00	0.14	0.22
157	49	80	-77.14	0.09	0.00	0.00	0.07	1.37
158	78	78	-128.61	0.24	0.00	0.00	0.02	0.01
159	78	121	-538.63	0.07	0.00	0.00	1.69	1.87
160	77	122	-297.66	0.41	0.00	0.00	0.94	0.44
161	121	113	47.68	0.33	0.00	0.00	0.77	0.34
162	123	120	-90.19	1.00	0.00	0.00	1.09	1.92
163	125	143	159.38	7.33	0.00	0.00	2.01	6.00
164	120	126	-349.16	1.19	0.00	0.00	2.00	0.48
165	126	143	-740.42	1.61	0.00	0.00	2.16	2.36
166	122	126	-349.12	0.33	0.00	0.00	1.15	0.48
167	129	121	446.67	2.39	0.00	0.00	1.38	1.98
168	121	120	66.94	0.02	0.00	0.00	0.37	0.74
169	120	75	360.50	0.01	0.00	0.00	1.70	1.74
170	79	80	69.88	0.39	0.00	0.00	0.16	0.62
171	120	119	-209.77	1.00	0.00	0.00	1.34	2.23
172	120	80	71.21	0.04	0.00	0.00	0.06	1.38
173	127	80	7.73	0.09	0.00	0.00	0.10	0.11
174	127	81	67.18	0.43	0.00	0.00	0.15	0.73
175	60	81	67.26	0.42	0.00	0.00	0.76	0.99
176	81	70	77.73	0.12	0.00	0.00	0.10	0.17
177	81	63	41.42	0.18	0.00	0.00	0.09	0.44
178	112	87	346.27	0.04	0.00	0.00	1.17	0.96
179	82	83	194.96	0.44	0.00	0.00	1.24	3.30
180	108	83	41.41	0.37	0.00	0.00	0.76	0.49
181	88	83	-119.73	0.19	0.00	0.00	0.73	0.23
182	88	83	153.53	0.15	0.00	0.00	0.96	3.59

180	87	80	-26.32	0.22	0.22	0.01	1.16	0.85
181	87	100	-676.61	0.21	0.22	1.01	1.08	1.37
182	88	89	144.76	0.16	0.23	1.01	1.92	1.85
183	89	92	-10.49	0.15	0.23	1.01	1.91	1.78
184	101	91	132.22	0.32	0.23	1.01	1.84	2.08
185	89	91	223.22	7.64	0.23	1.01	2.33	4.91
186	91	91	724.72	8.32	0.23	1.01	4.43	11.82
187	91	101	-343.93	0.38	0.23	1.01	1.63	1.14
188	91	91	87.45	14.53	0.23	1.01	1.57	18.29
189	95	92	1797.22	145.32	0.23	1.01	11.42	349.89
190	91	92	3318.66	132.82	0.23	1.01	10.93	332.93
191	91	94	-434.88	17.34	0.23	1.01	5.41	21.67
192	91	101	-883.58	28.14	0.23	1.01	4.72	19.87
193	94	156	-342.28	12.28	0.23	1.01	8.97	33.84
194	94	91	947.42	4.34	0.23	1.01	5.41	14.46
195	91	111	-246.33	1.97	1.00	0.01	1.57	1.47
196	96	90	-667.10	2.33	1.00	0.01	3.11	6.49
197	97	107	-54.63	0.32	1.00	0.01	0.61	0.24
198	97	90	340.65	0.32	1.00	0.01	2.30	2.97
199	98	101	142.05	0.44	1.00	0.01	0.29	0.63
200	98	99	-330.50	0.08	1.00	0.01	2.11	2.83
201	101	99	134.09	1.09	1.00	0.01	1.87	2.14
202	99	106	10.41	0.02	1.01	0.01	0.21	0.65
203	99	103	-218.46	0.22	1.01	0.01	1.39	1.17
204	101	105	-52.81	0.03	1.01	0.01	0.34	0.69
205	101	103	144.75	1.94	1.01	0.01	1.87	2.82
206	101	107	339.11	1.18	1.01	0.01	0.69	0.91
207	101	103	-384.69	1.47	1.01	0.01	1.34	2.17
208	101	104	0.46	0.01	1.01	0.01	0.02	0.03
209	101	104	649.70	0.09	1.01	0.01	1.39	0.63
210	101	104	-632.88	1.77	1.01	0.01	1.74	0.92
211	101	104	-68.61	0.02	1.01	0.01	0.70	1.61
212	101	104	-66.27	0.12	1.01	0.01	0.55	0.21
213	101	104	62.65	0.01	1.01	0.01	0.48	0.21
214	101	104	12.64	0.01	1.01	0.01	0.07	0.61
215	101	104	15.61	0.06	1.01	0.01	0.16	0.94
216	101	104	-14.77	2.69	1.01	0.01	0.16	0.47
217	101	104	116.05	0.11	1.01	0.01	0.74	0.89
218	101	104	10.07	0.14	1.01	0.01	0.58	1.03
219	101	104	112.90	0.33	1.01	0.01	1.28	1.03
220	101	104	112.90	0.09	1.01	0.01	1.72	1.24
221	101	104	10.12	0.27	1.01	0.01	1.40	1.20
222	101	104	-216.03	0.32	1.01	0.01	3.04	1.11
223	101	104	147.72	0.16	1.01	0.01	2.94	1.87
224	101	104	32.03	0.12	1.01	0.01	1.25	1.11
225	101	104	-146.04	2.38	1.01	0.01	1.94	1.07
226	101	104	170.74	0.18	1.01	0.01	1.70	1.20
227	101	104	12.73	0.01	1.01	0.01	0.09	0.61
228	101	104	13.09	0.08	1.01	0.01	1.09	0.61
229	101	104	1170.06	2.64	1.01	0.01	1.66	1.74
230	101	104	-116.01	0.22	1.01	0.01	1.48	1.97
231	101	104	-135.72	2.29	1.01	0.01	1.87	2.40
232	101	104	-2.25	0.09	1.01	0.01	1.03	1.01
233	101	104	-112.72	0.25	1.01	0.01	1.72	1.63
234	101	104	21.12	0.23	1.01	0.01	1.13	1.03
235	101	104	41.24	0.03	1.01	0.01	1.11	1.01
236	101	104	-73.14	0.12	1.01	0.01	1.17	1.20
237	101	104	-180.11	0.13	1.01	0.01	1.06	1.01
238	101	104	133.17	0.17	1.01	0.01	1.81	1.06
239	101	104	20.11	0.10	1.01	0.01	0.13	0.11
240	101	104	61.70	0.10	1.01	0.01	1.63	0.38
241	101	104	-17.63	0.08	1.01	0.01	0.11	0.09
242	101	104	146.09	0.15	1.01	0.01	1.16	1.10
243	101	104	-81.17	0.20	1.01	0.01	1.94	1.14
244	101	104	76.71	0.44	1.01	0.01	1.44	1.23
245	101	104	-240.14	2.26	1.01	0.01	1.64	2.09
246	101	104	-1415.60	1.38	1.01	0.01	2.91	2.45
247	101	104	-213.49	2.37	1.01	0.01	1.45	2.44
248	101	104	32.19	0.23	1.01	0.01	1.16	1.47
249	101	104	-473.13	1.85	1.01	0.01	2.47	1.72
250	101	104	-211.74	0.92	1.01	0.01	2.47	0.21
251	101	104	111.08	0.14	1.01	0.01	2.41	0.16
252	101	104	-42.14	0.04	1.01	0.01	1.71	0.91
253	101	104	-230.64	1.37	1.01	0.01	1.97	0.64
254	101	104	-246.00	2.16	1.01	0.01	1.39	1.37
255	101	104	-234.62	0.70	1.01	0.01	1.41	1.10
256	101	104	-247.62	0.13	1.01	0.01	1.96	0.87
257	101	104	229.06	0.08	1.01	0.01	1.74	1.28
258	101	104	410.04	0.70	1.01	0.01	1.47	1.90
259	101	104	-84.10	0.39	1.01	0.01	1.43	1.58
260	101	104	120.47	0.13	1.01	0.01	2.53	1.22
261	101	104	-418.05	1.70	1.01	0.01	2.10	0.80
262	101	104	-224.79	1.21	1.01	0.01	2.67	4.57
263	101	104	181.44	0.61	1.01	0.01	1.16	1.92
264	101	104	-32.05	0.01	1.01	0.01	1.11	1.19
265	101	104	221.06	1.41	1.01	0.01	2.23	1.02
266	101	104	234.10	0.32	1.01	0.01	1.20	1.03
267	101	104	131.62	0.46	1.01	0.01	0.00	0.01
268	101	104	40.40	0.11	1.01	0.01	0.18	0.30
269	101	104	70.63	0.10	1.01	0.01	0.48	1.30
270	101	104	70.63	0.17	1.01	0.01	1.47	1.39
271	101	104	88.87	0.27	1.01	0.01	1.47	1.61
272	101	104	-38.91	0.22	1.01	0.01	1.23	0.84
273	101	104	794.74	0.11	1.01	0.01	1.13	0.14

257	189	161	-070.24	1.22	0.70	2.00	1.50	15.19
258	161	161	-1661.10	1.97	0.20	2.00	11.45	49.21
259	161	162	445.32	6.96	0.00	2.00	4.25	9.24
260	160	163	-190.04	1.79	1.00	2.00	2.25	7.91
261	163	164	-271.04	7.43	1.00	2.00	3.00	7.19
262	164	165	420.90	1.70	1.00	2.00	2.65	3.91
263	164	165	-159.79	1.82	1.00	2.00	1.01	2.47
264	162	166	344.23	1.17	1.00	2.00	2.11	2.73
265	157	162	-407.47	4.37	1.00	2.00	3.17	3.44
266	202	164	327.98	4.86	1.00	2.00	2.29	2.49
267	151	223	-285.70	4.33	1.00	2.00	1.82	1.93
268	152	166	1.00	1.00	2.00	2.00	0.21	0.00
269	166	161	68.75	1.14	1.00	2.00	0.87	0.41
270	166	167	-89.39	1.28	1.00	2.00	0.57	0.41
271	160	161	101.22	1.36	1.00	2.00	1.40	0.17
272	160	167	-32.75	0.80	1.00	2.00	0.23	0.07
273	167	166	-144.35	0.19	1.00	2.00	0.39	0.20
274	179	160	71.62	0.19	1.00	2.00	0.49	0.31
275	179	160	-7.44	0.00	1.00	2.00	2.58	9.50
276	160	164	0.00	0.90	1.00	2.00	0.86	0.00
277	160	169	-165.94	0.19	1.00	2.00	0.64	0.22
278	170	179	74.25	0.19	1.00	2.00	0.47	0.29
279	170	169	1.00	0.00	1.00	2.00	0.21	0.00
280	169	170	-141.99	2.22	1.00	2.00	0.74	0.42
281	171	170	73.22	0.19	1.00	2.00	0.81	0.33
282	171	170	-113.60	0.84	1.00	2.00	0.46	0.16
283	179	213	-676.64	2.43	0.00	2.00	2.76	4.66
284	169	176	-1301.91	2.13	0.00	2.00	2.40	3.85
285	175	176	-193.78	1.96	1.00	2.00	2.20	7.01
286	175	164	74.60	1.30	1.00	2.00	1.07	1.64
287	143	171	-230.67	0.98	1.00	2.00	1.47	2.38
288	176	175	-145.23	1.73	1.00	2.00	1.49	4.11
289	173	176	-260.44	1.27	1.00	2.00	1.71	3.14
290	172	173	-17.26	0.80	0.00	2.00	0.11	0.01
291	172	171	94.21	0.88	0.00	2.00	0.61	0.26
292	172	224	-164.76	1.00	0.00	2.00	1.19	1.22
293	191	167	-17.23	0.11	0.00	2.00	0.11	0.02
294	221	226	292.91	0.13	0.00	2.00	1.03	2.74
295	221	220	-648.89	1.20	0.00	2.00	2.41	3.84
296	176	227	-112.21	0.41	0.00	2.00	1.10	0.81
297	175	222	-62.35	0.43	0.00	2.00	0.71	2.86
298	176	220	10.95	0.00	1.00	2.00	0.04	0.01
299	176	219	-1595.41	2.84	0.00	2.00	3.33	4.62
300	220	219	-1842.39	2.94	0.00	2.00	0.42	0.42
301	224	225	-841.23	0.09	1.00	2.00	1.96	1.32
302	225	226	-487.44	0.26	1.00	2.00	1.70	1.09
303	224	227	-682.73	0.42	1.00	2.00	1.71	1.61
304	227	228	-941.22	1.93	1.00	2.00	2.47	3.69
305	228	229	-1311.30	1.08	1.00	2.00	7.87	6.11
306	229	230	-714.60	0.80	1.00	2.00	2.91	1.00
307	229	230	-234.27	1.33	1.00	2.00	3.47	1.00
308	230	231	-1415.96	0.78	1.00	2.00	4.62	7.55
309	231	232	188.41	0.03	1.00	2.00	0.03	0.19
310	231	237	-269.42	0.23	1.00	2.00	1.72	3.19
311	210	217	1221.90	0.98	1.00	2.00	4.39	14.10
312	210	219	-2636.44	0.94	1.00	2.00	8.49	11.72
313	219	221	-6794.44	1.40	1.00	2.00	9.73	29.74
314	216	221	-4061.72	0.87	1.00	2.00	0.01	27.43
315	216	219	1989.93	0.89	1.00	2.00	4.18	0.43
316	219	216	-2012.19	4.30	1.00	2.00	1.74	2.44
317	216	217	-951.17	6.93	1.00	2.00	1.89	9.13
318	216	219	487.44	0.78	1.00	2.00	2.89	0.31
319	216	216	210.07	0.84	1.00	2.00	0.00	0.00
320	216	213	677.68	0.87	1.00	2.00	0.00	0.00
321	213	213	1.00	0.00	1.00	2.00	0.00	0.00
322	213	213	0.00	0.00	1.00	2.00	0.00	0.00
323	210	210	189.93	1.17	1.00	2.00	1.21	3.67
324	214	210	488.46	2.88	1.00	2.00	1.10	1.62
325	210	210	210.40	1.49	1.00	2.00	1.19	1.16
326	210	210	262.94	2.47	1.00	2.00	1.44	3.25
327	209	209	10.49	0.83	0.00	2.00	0.26	0.09
328	209	206	284.91	1.40	1.00	2.00	1.43	2.87
329	209	207	221.41	1.13	1.00	2.00	1.43	2.88
330	207	206	179.67	0.13	1.00	2.00	1.15	1.95
331	206	206	422.49	1.92	1.00	2.00	3.77	7.48
332	207	206	41.49	0.83	1.00	2.00	0.27	6.16
333	206	204	229.62	2.23	1.00	2.00	1.47	2.37
334	204	207	-11.43	0.44	1.00	2.00	0.59	0.61
335	203	204	31.40	0.61	1.00	2.00	0.24	0.13
336	203	203	-122.47	0.86	1.00	2.00	2.26	2.42
337	203	203	-681.41	0.44	1.00	2.00	1.29	1.07
338	203	222	-134.14	0.11	1.00	2.00	0.98	0.62
339	203	203	40.44	0.89	1.00	2.00	0.31	0.13
340	201	200	-186.12	0.01	1.00	2.00	0.43	0.16
341	200	204	-117.02	0.21	1.00	2.00	2.22	3.24
342	200	199	-319.44	0.32	1.00	2.00	1.31	0.75
343	200	199	480.44	0.11	1.00	2.00	2.93	0.44
344	199	199	473.79	2.87	1.00	2.00	2.03	0.92
345	199	198	-44.44	0.37	1.00	2.00	2.74	6.13
346	198	193	666.81	0.31	0.00	2.00	2.98	4.79
347	198	193	-81.18	0.15	1.00	2.00	0.49	0.35
348	197	194	-39.41	0.46	1.00	2.00	1.09	0.97
349	196	194	434.46	2.92	1.00	2.00	2.61	4.29
350	193	196	694.01	4.25	1.00	2.00	3.23	0.92
351	193	193	694.46	4.71	1.00	2.00	4.13	0.74

356	389	386	59.10	0.49	0.03	0.00	0.00	0.00
357	386	387	-133.97	0.19	0.03	0.00	0.00	0.00
358	386	387	31.58	0.27	0.03	0.00	0.00	0.00
359	387	386	-155.57	0.27	0.03	0.00	0.00	0.00
360	388	383	-147.15	0.64	0.03	0.00	0.00	0.00
361	389	391	-246.23	1.47	0.03	0.00	0.00	0.00
362	391	391	130.56	1.75	0.00	0.00	0.00	0.00
363	391	392	-132.34	0.00	0.00	0.00	0.00	0.00
364	392	393	-1829.41	2.13	0.00	0.00	0.00	0.00
365	393	394	-586.78	2.34	0.00	0.00	0.00	0.00
366	395	393	669.45	0.44	0.00	0.00	0.00	0.00
367	397	393	-222.15	0.01	0.00	0.00	0.00	0.00
368	398	393	2181.56	0.46	0.00	0.00	0.00	0.00
369	398	395	317.18	1.39	0.00	0.00	0.00	0.00
370	397	394	1959.07	0.31	0.00	0.00	0.00	0.00
371	397	396	-418.11	0.05	0.00	0.00	0.00	0.00
372	399	395	1239.74	1.01	0.00	0.00	0.00	0.00
373	399	397	2127.01	0.31	0.00	0.00	0.00	0.00
374	394	397	-5259.30	75.82	0.00	0.00	0.00	0.00
375	397	394	70.65	0.46	0.00	0.00	0.00	0.00
376	397	397	345.17	0.23	0.00	0.00	0.00	0.00
377	398	398	-182.23	0.04	0.00	0.00	0.00	0.00
378	398	393	798.51	0.36	0.00	0.00	0.00	0.00
379	398	399	237.00	0.01	0.00	0.00	0.00	0.00
380	399	399	133.78	0.00	0.00	0.00	0.00	0.00
381	399	398	173.23	0.00	0.00	0.00	0.00	0.00
382	399	398	-85.64	0.47	0.00	0.00	0.00	0.00
383	399	398	-46.19	0.31	0.00	0.00	0.00	0.00
384	399	398	61.21	0.34	0.00	0.00	0.00	0.00
385	399	398	-14.94	0.22	0.00	0.00	0.00	0.00
386	399	398	14.94	0.22	0.00	0.00	0.00	0.00
387	399	398	-49.11	0.30	0.00	0.00	0.00	0.00
388	399	398	-49.11	0.30	0.00	0.00	0.00	0.00
389	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
390	399	398	135.02	0.57	0.00	0.00	0.00	0.00
391	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
392	399	398	135.02	0.57	0.00	0.00	0.00	0.00
393	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
394	399	398	135.02	0.57	0.00	0.00	0.00	0.00
395	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
396	399	398	135.02	0.57	0.00	0.00	0.00	0.00
397	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
398	399	398	135.02	0.57	0.00	0.00	0.00	0.00
399	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
400	399	398	135.02	0.57	0.00	0.00	0.00	0.00
401	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
402	399	398	135.02	0.57	0.00	0.00	0.00	0.00
403	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
404	399	398	135.02	0.57	0.00	0.00	0.00	0.00
405	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
406	399	398	135.02	0.57	0.00	0.00	0.00	0.00
407	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
408	399	398	135.02	0.57	0.00	0.00	0.00	0.00
409	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
410	399	398	135.02	0.57	0.00	0.00	0.00	0.00
411	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
412	399	398	135.02	0.57	0.00	0.00	0.00	0.00
413	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
414	399	398	135.02	0.57	0.00	0.00	0.00	0.00
415	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
416	399	398	135.02	0.57	0.00	0.00	0.00	0.00
417	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
418	399	398	135.02	0.57	0.00	0.00	0.00	0.00
419	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
420	399	398	135.02	0.57	0.00	0.00	0.00	0.00
421	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
422	399	398	135.02	0.57	0.00	0.00	0.00	0.00
423	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
424	399	398	135.02	0.57	0.00	0.00	0.00	0.00
425	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
426	399	398	135.02	0.57	0.00	0.00	0.00	0.00
427	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
428	399	398	135.02	0.57	0.00	0.00	0.00	0.00
429	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
430	399	398	135.02	0.57	0.00	0.00	0.00	0.00
431	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
432	399	398	135.02	0.57	0.00	0.00	0.00	0.00
433	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
434	399	398	135.02	0.57	0.00	0.00	0.00	0.00
435	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
436	399	398	135.02	0.57	0.00	0.00	0.00	0.00
437	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
438	399	398	135.02	0.57	0.00	0.00	0.00	0.00
439	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
440	399	398	135.02	0.57	0.00	0.00	0.00	0.00
441	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
442	399	398	135.02	0.57	0.00	0.00	0.00	0.00
443	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
444	399	398	135.02	0.57	0.00	0.00	0.00	0.00
445	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
446	399	398	135.02	0.57	0.00	0.00	0.00	0.00
447	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
448	399	398	135.02	0.57	0.00	0.00	0.00	0.00
449	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
450	399	398	135.02	0.57	0.00	0.00	0.00	0.00
451	399	398	-110.46	0.19	0.00	0.00	0.00	0.00
452	399	398	135.02	0.57	0.00	0.00	0.00	0.00

487	342	381	-284.75	3.76	0.00	0.00	2.02	3.83
487	342	386	-128.13	0.40	0.00	0.00	2.02	7.11
488	344	394	-128.14	0.36	0.00	0.00	2.02	3.24
489	344	392	-63.22	0.26	0.00	0.00	2.02	3.46
490	342	337	-44.68	0.44	0.00	0.00	2.02	0.29
491	348	337	-9.98	0.21	0.00	0.00	2.02	0.02
492	337	336	-67.18	0.98	0.00	0.00	2.02	0.09
493	339	336	49.00	0.98	0.00	0.00	2.02	1.74
494	338	331	68.68	0.16	0.00	0.00	2.02	1.73
495	332	332	43.12	0.38	0.00	0.00	2.02	0.02
496	333	336	48.14	0.29	0.00	0.00	2.02	0.47
497	325	336	67.03	0.61	0.00	0.00	2.02	0.98
498	327	338	37.81	0.62	0.00	0.00	2.02	0.21
499	327	328	-18.83	0.00	0.00	0.00	2.02	0.21
500	326	333	-30.26	0.34	0.00	0.00	2.02	0.31
501	323	331	-38.40	0.26	0.00	0.00	2.02	1.03
502	321	330	-48.87	0.31	0.00	0.00	2.02	1.03
503	320	348	-118.76	0.53	0.00	0.00	2.02	0.73
504	320	328	248.89	0.98	0.00	0.00	2.02	0.76
505	326	329	220.07	3.43	0.00	0.00	2.02	2.24
506	329	325	328.37	0.89	0.00	0.00	2.02	1.27
507	320	321	-181.64	0.87	0.00	0.00	2.02	1.14
508	320	322	184.48	0.86	0.00	0.00	2.02	7.36
509	320	349	-223.87	11.86	0.00	0.00	2.02	5.62
510	328	324	-1.88	0.80	0.00	0.00	2.02	0.60
511	328	324	-2.40	0.80	0.00	0.00	2.02	0.00
512	323	323	-14.71	0.84	0.00	0.00	2.02	0.23
513	321	322	-31.88	0.19	0.00	0.00	2.02	0.14
514	319	316	6.59	0.81	0.00	0.00	2.02	0.81
515	317	316	-4.21	0.81	0.00	0.00	2.02	0.21
516	316	312	8.67	0.80	0.00	0.00	2.02	0.00
517	313	311	1.81	0.80	0.00	0.00	2.02	0.12
518	312	311	-21.88	0.10	0.00	0.00	2.02	0.28
519	311	309	23.81	0.10	0.00	0.00	2.02	0.14
520	311	322	-65.21	0.61	0.00	0.00	2.02	0.65
521	321	322	98.69	0.13	0.00	0.00	2.02	0.14
522	322	323	32.47	0.80	0.00	0.00	2.02	0.00
523	326	324	-84.13	0.48	0.00	0.00	2.02	0.74
524	326	347	41.09	0.20	0.00	0.00	2.02	0.23
525	346	341	-66.41	0.41	0.00	0.00	2.02	0.29
526	346	329	144.14	3.16	0.00	0.00	2.02	1.12
527	326	329	-178.11	3.27	0.00	0.00	2.02	1.87
528	326	318	-258.08	0.16	0.00	0.00	2.02	0.62
529	319	326	-207.88	1.39	0.00	0.00	2.02	1.73
530	319	346	948.76	0.30	0.00	0.00	2.02	2.30
531	340	347	224.87	0.13	0.00	0.00	2.02	0.64
532	321	347	-237.96	0.24	0.00	0.00	2.02	1.81
533	312	321	-133.43	0.70	0.00	0.00	2.02	0.51
534	313	312	-137.31	0.87	0.00	0.00	2.02	0.70
535	314	313	-136.40	0.73	0.00	0.00	2.02	0.66
536	317	316	-133.73	0.89	0.00	0.00	2.02	0.63
537	310	317	-143.98	0.79	0.00	0.00	2.02	0.89
538	321	310	-112.33	0.66	0.00	0.00	2.02	0.80
539	322	322	-98.77	0.88	0.00	0.00	2.02	0.32
540	325	322	-38.65	0.74	0.00	0.00	2.02	0.17
541	323	323	-48.73	0.68	0.00	0.00	2.02	0.26
542	323	328	-81.19	0.24	0.00	0.00	2.02	0.78
543	323	318	-136.51	0.25	0.00	0.00	2.02	1.78
544	316	318	131.82	0.77	0.00	0.00	2.02	0.97
545	316	318	-137.16	0.67	0.00	0.00	2.02	0.31
546	316	310	-114.87	0.73	0.00	0.00	2.02	0.10
547	310	310	-118.68	0.78	0.00	0.00	2.02	0.14
548	309	313	-118.68	0.82	0.00	0.00	2.02	0.47
549	309	308	-118.68	0.82	0.00	0.00	2.02	0.17
550	306	304	-45.13	0.87	0.00	0.00	2.02	0.42
551	306	304	-81.69	0.97	0.00	0.00	2.02	0.95
552	303	304	-62.76	0.61	0.00	0.00	2.02	0.19
553	346	343	-238.84	0.61	0.00	0.00	2.02	0.11
554	343	343	-233.89	0.37	0.00	0.00	2.02	1.19
555	342	341	-70.21	0.64	0.00	0.00	2.02	0.14
556	341	360	16.85	0.59	0.00	0.00	2.02	0.01
557	343	331	-174.27	1.51	0.00	0.00	2.02	0.15
558	338	339	-924.82	1.33	0.00	0.00	2.02	0.13
559	343	334	-99.64	0.81	0.00	0.00	2.02	0.21
560	334	338	-348.20	0.70	0.00	0.00	2.02	0.78
561	334	323	238.43	0.71	0.00	0.00	2.02	0.27
562	342	327	-139.88	0.88	0.00	0.00	2.02	0.68
563	343	323	-75.18	0.61	0.00	0.00	2.02	0.79
564	333	323	127.74	0.12	0.00	0.00	2.02	0.19
565	344	323	-375.83	0.82	0.00	0.00	2.02	0.26
566	312	328	-118.93	0.84	0.00	0.00	2.02	0.13
567	347	324	-360.48	2.88	0.00	0.00	2.02	0.31
568	306	306	-432.76	1.88	0.00	0.00	2.02	0.13
569	308	308	411.59	0.89	0.00	0.00	2.02	0.39
570	304	304	-60.13	0.36	0.00	0.00	2.02	0.11
571	327	301	-128.27	0.62	0.00	0.00	2.02	0.58
572	306	307	-18.71	0.82	0.00	0.00	2.02	0.83
573	308	307	-123.82	0.32	0.00	0.00	2.02	0.18
574	326	304	74.12	0.80	0.00	0.00	2.02	0.84
575	327	346	12.72	0.23	0.00	0.00	2.02	0.03
576	329	328	-34.18	0.84	0.00	0.00	2.02	0.16
577	329	326	12.72	0.84	0.00	0.00	2.02	0.16
578	328	326	-77.45	0.34	0.00	0.00	2.02	0.78
579	313	328	-139.83	1.58	0.00	0.00	2.02	1.38
580	313	328	-77.94	0.38	0.00	0.00	2.02	0.71
581	313	328	-77.94	0.38	0.00	0.00	2.02	0.71

889	301	330	36.07	3.17	0.02	0.00	0.07	0.14
888	302	330	25.14	3.06	0.02	0.00	0.07	0.04
887	303	330	20.22	3.01	0.02	0.00	0.07	0.04
886	304	331	-36.91	3.04	0.02	0.00	0.07	0.04
885	305	331	-0.93	3.02	0.02	0.00	0.07	0.04
884	306	331	-16.55	3.01	0.02	0.00	0.07	0.04
883	307	330	-0.47	3.02	0.02	0.00	0.07	0.04
882	308	330	-1.02	3.01	0.02	0.00	0.07	0.04
881	309	330	-0.47	3.01	0.02	0.00	0.07	0.04
880	310	330	66.45	3.13	0.02	0.00	0.07	0.04
879	311	331	34.74	3.02	0.02	0.00	0.07	0.04
878	312	331	-21.94	3.15	0.02	0.00	0.07	0.04
877	313	331	-18.02	3.12	0.02	0.00	0.07	0.04
876	314	331	23.43	3.11	0.02	0.00	0.07	0.04
875	315	331	612.43	3.10	0.02	0.00	0.07	0.04
874	316	331						
873	317	330	-360.47	3.14	0.02	0.00	0.07	0.04
872	318	330	-344.47	3.15	0.02	0.00	0.07	0.04
871	319	330	381.00	3.21	0.02	0.00	0.07	0.04
870	320	330	-140.34	0.43	0.02	0.00	0.07	0.04
869	321	330	96.39	0.32	0.02	0.00	0.07	0.04
868	322	330	-317.34	0.39	0.02	0.00	0.07	0.04
867	323	330	-470.41	0.38	0.02	0.00	0.07	0.04
866	324	330	-762.34	0.38	0.02	0.00	0.07	0.04
865	325	330						
864	326	330	376.46	3.12	0.02	0.00	0.07	0.04
863	327	330	-376.46	0.36	0.02	0.00	0.07	0.04
862	328	330	-376.46	0.36	0.02	0.00	0.07	0.04
861	329	330	-762.34	3.11	0.02	0.00	0.07	0.04
860	330	330	376.46	3.12	0.02	0.00	0.07	0.04
859	331	330	-276.43	3.09	0.02	0.00	0.07	0.04
858	332	330						
857	333	330	2117.22	0.42	0.02	0.00	0.07	0.04
856	334	330	2126.26	0.42	0.02	0.00	0.07	0.04
855	335	330	-266.71	0.39	0.02	0.00	0.07	0.04
854	336	330	87.96	0.09	0.02	0.00	0.07	0.04
853	337	330	-470.41	0.09	0.02	0.00	0.07	0.04
852	338	330	97.96	0.09	0.02	0.00	0.07	0.04
851	339	330	-2.49	0.02	0.02	0.00	0.07	0.04
850	340	330	-774.47	0.94	0.02	0.00	0.07	0.04
849	341	330	-415.83	0.40	0.02	0.00	0.07	0.04
848	342	330	-184.62	0.92	0.02	0.00	0.07	0.04
847	343	330	-215.18	0.02	0.02	0.00	0.07	0.04
846	344	330	170.10	0.20	0.02	0.00	0.07	0.04
845	345	330	166.71	0.25	0.02	0.00	0.07	0.04
844	346	330	-131.77	0.12	0.02	0.00	0.07	0.04
843	347	330	-132.06	0.12	0.02	0.00	0.07	0.04
842	348	330	-140.31	0.07	0.02	0.00	0.07	0.04
841	349	330	-717.59	0.03	0.02	0.00	0.07	0.04
840	350	330	-415.83	0.06	0.02	0.00	0.07	0.04
839	351	330	762.34	0.73	0.02	0.00	0.07	0.04
838	352	330	144.49	0.66	0.02	0.00	0.07	0.04
837	353	330	-441.14	0.16	0.02	0.00	0.07	0.04
836	354	330	-442.16	0.99	0.02	0.00	0.07	0.04
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834	356	330	-2310.21	0.45	0.02	0.00	0.07	0.04
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832	358	330	-2102.16	0.57	0.02	0.00	0.07	0.04
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830	360	330	-1672.41	0.78	0.02	0.00	0.07	0.04
829	361	330	-1672.41	0.76	0.02	0.00	0.07	0.04
828	362	330	0.00	0.00	0.02	0.00	0.07	0.04
827	363	330	376.71	0.32	0.02	0.00	0.07	0.04
826	364	330	-276.71	0.45	0.02	0.00	0.07	0.04
825	365	330	276.71	0.20	0.02	0.00	0.07	0.04
824	366	330	214.24	0.18	0.02	0.00	0.07	0.04
823	367	330	44.04	0.20	0.02	0.00	0.07	0.04
822	368	330	16.28	0.22	0.02	0.00	0.07	0.04
821	369	330	-31.38	0.19	0.02	0.00	0.07	0.04
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818	372	330	23.02	0.04	0.02	0.00	0.07	0.04
817	373	330	-0.70	0.00	0.02	0.00	0.07	0.04
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815	375	330	-7.46	0.00	0.02	0.00	0.07	0.04
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813	377	330	-11.74	0.31	0.02	0.00	0.07	0.04
812	378	330	-05.24	0.01	0.02	0.00	0.07	0.04
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308	37.02	3402.28	2800 00	105.28	35 04
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345	74.02	4144.01	2805 00	79.01	08 08
346	75.07	4014 03	6.00 00	78.03	20 00
347	76.02	4014.73	6.00 00	77.73	15 00
348	77.07	4014 65	6.00 00	76.65	24 07
349	78.77	4014 63	2807 00	75.63	40 11
350	79.10	4014.04	6.00 00	74.04	10 10
351	80.14	4014.13	6.00 00	73.13	11 24
352	81.02	4014.14	6.00 00	72.14	24 24
353	82.00	4014 10	6.00 00	71.10	20 06
354	83.01	4014 00	6.00 00	70.00	20 00
355	84.01	4014 17	6.00 00	69.17	24 10
356	85.01	4014 17	6.00 00	68.17	24 10
357	86.04	4014 29	6.00 00	67.29	20 02
358	87.02	4014 20	6.00 00	66.20	20 02
359	88.04	4014 17	6.00 00	65.17	20 02
360	89.04	4014 04	6.00 00	64.04	21 00
361	90.02	4014.01	6.00 00	63.01	21 01
362	91.02	4014.01	6.00 00	62.01	21 01
363	92.02	4014 00	6.00 00	61.00	20 11
364	93.02	4014 00	6.00 00	60.00	0 00
365	94.02	4014 00	6.00 00	59.00	0 00
366	95.04	4014 00	6.00 00	58.00	0 00
367	96.04	4014 00	6.00 00	57.00	0 00
368	97.04	4014 00	6.00 00	56.00	0 00
369	98.04	4014 00	6.00 00	55.00	0 00

376	12.50	4269.94	4138.00	71.50	31.17
377	5.17	4209.94	4152.00	59.94	25.97
378	31.91	4209.94	4141.00	59.94	30.31
379	25.50	4271.01	4103.00	95.66	41.19
380	29.30	4271.20	4192.00	86.24	37.37
381	23.79	3971.30	3872.00	101.39	41.91
382	0.00	3901.71	3892.00	114.71	49.71
383	1.31	3901.04	3871.00	109.04	47.60
384	0.00	3992.03	3871.00	117.63	51.06
385	0.00	3992.45	3871.00	115.45	50.93
386	0.00	3992.71	3874.00	118.71	50.98
387	0.00	3992.86	3878.00	112.84	48.90
388	0.00	3992.97	3877.00	112.97	48.19
389	0.00	3992.08	3878.00	114.08	50.10
390	0.00	3992.60	3876.01	116.40	51.44
391	0.00	3992.97	3873.00	117.97	51.17
392	0.00	3992.11	3883.00	111.11	48.16
393	0.00	3992.91	3882.00	111.91	48.34
394	3.00	3992.04	3882.00	111.04	48.39
395	2.00	3991.02	3885.00	105.02	46.39
396	2.00	3991.67	3886.00	106.67	46.31
397	0.00	3992.32	3887.00	105.32	46.64
398	0.00	3992.23	3883.00	103.23	44.71
399	0.00	3992.03	3889.00	103.03	44.60
400	3.00	3991.97	3889.00	102.97	44.62
401	3.00	3992.03	3884.00	98.03	42.40
402	0.00	3992.67	3884.00	98.67	42.50
403	3.00	3992.66	3886.00	96.66	41.67
404	3.00	3992.69	3888.00	97.69	42.07
405	3.00	3992.11	3890.00	97.11	42.10
406	3.00	4001.00	3890.00	179.00	79.00
407	0.00	4071.00	3895.00	106.00	46.71
408	0.00	4070.78	3890.00	100.78	45.51
409	0.00	3994.02	3883.00	113.02	49.24
410	0.00	3881.14	3883.00	6.14	3.78
411	0.00	3881.20	3866.10	25.10	10.91
412	0.00	4151.05	3866.10	104.05	79.09
413	0.00	4110.22	4099.50	18.72	8.11
414	0.00	3887.78	3890.00	27.22	11.72
415	0.00	3870.31	3866.00	21.31	9.31
416	0.00	3870.48	3865.00	14.48	6.28
417	0.00	3152.00	3868.00	20.00	10.00

MAXIMUM AND MINIMUM VALUES PRESSURES

SECTION NUMBER	MAXIMUM PRESSURE (PSI)	JUNCTION NUMBER	MINIMUM PRESSURE (PSI)
119	0.00	82	-31.00
420	0.00	112	3.78
324	79.09	121	5.00
629	77.60	330	1.00
144	76.94	705	4.20

HL / 1000

PIPE NUMBER	MAXIMUM HL/1000 (ft/ft)	PIPE NUMBER	MINIMUM HL/1000 (ft/ft)
119	108.49	114	0.00
140	132.53	422	0.00
420	80.62	623	0.00
629	69.87	721	0.00
170	51.07	779	0.00

REGULATING VALVE REPORT

AT VALVE POSITION	CONTROLLING VALVE	VALVE	SYSTEM	DOWNSTREAM THROUGH
LOCAL TYPE	NAME	PIPE	SETTING	STATUS
			(ft or gpm)	
RI	PRV 1	366	647	4230 46 THROTTLED
				4279.00
				4310 40
				219.71

SUMMARY OF INFLOWS AND OUTFLOWS

- 1.1 INFLOW INTO THE SYSTEM FROM FIXED GRADE MCKE
- 1.2 OUTFLOWS FROM THE SYSTEM INTO FIXED GRADE MCKE

FROM LABEL	PIPE NUMBER	ELEVATION (ft)	MCKE TITLE
CO	497	1002.40	TANK 7100
SD	677	-495.41	TANK 7100
SE	643	-1291.41	TANK 7101
FF	644	1472.41	TANK 7101
ST	669	329.70	TANK 7170
IZ	810	6551.32	TANK 1310
ST	820	4930.16	TANK 1723
OK	826	6253.30	TANK 1495. 91. 92
11	414	700.40	6.00 0.00

7 1 0 0

**** RTTIPB SIMULATION COMPLETED ****

DATE 07/22/94
TIME 14 03:03 02

APPENDIX I - Existing Storage Capacities

EXISTING WATER TANK DATA

Structure No.	Type	Capacity in Gallons	Year Built	Elevation	Location
129	Elevated Tank (steel)	150,000	1910		Fort Bliss
493	Elev Wtr Tank (steel)	500,000	1941	3883.10	Fort Bliss
1318	Grnd Stor Reserv (conc)	558,000	1917		Fort Bliss
1319	Grnd Stor Tank (conc)	500,000	1959	3875.77	Fort Bliss
3680	Grnd Stor Tank (steel)	1,500,000	1978		Desert Field
3691	Grnd Stor Tank (steel)	194,000	1954	3880.00	Desert Field
3682	Grnd Stor Tank (steel)	194,000	1954	3890.00	Desert Field
3790	Elev Tank (steel)	100,000	1961		Tobin Wells
3794	Elev Tank (steel)	190,000	1972		Tobin Wells
4317	Grnd Stor Reserv (conc)	500,000	1940	3888.00	Logan Hts
4889	Grnd Stor Tank (steel)	712,000	1941	4200.40	Logan Hts
5300	Elevated Tank (steel)	1,500,000	1967		Fort Bliss
7086	Grnd Stor Tank (steel)	1,000,000	1932	3868.20	WBAMC
7090	Grnd Stor Tank (steel)	1,500,000	1959	3864.20	WBAMC
7241	Grnd Stor Tank (steel)	600,000	1930		WBAMC
7775	Grnd Stor Tank (steel)	1,000,000	1971	4137.90	WBAMC
11282	Elevated Tank (steel)	200,000	1949		Biggs
11146	Elevated Tank (steel)	750,000	1955	3915.17	Biggs
11172	Elevated Tank (steel)	600,000	1943		Biggs
11313	Elevated Tank (steel)	300,000	1967		Biggs

APPENDIX J - Probable Cost Estimates

[illegible]

APPENDIX K - Miscellaneous Calculations

MAINTENANCE COST

ALTERNATIVE #2 - ADDITION OF STORAGE COST

A. PAINTING OF NEW TANKS EVERY 10 YEARS

DESCRIPTION	QUANTITY		LABOR		MATERIAL		TOTAL
	NO	UNIT	UNIT	TOTAL	UNIT	TOTAL	
NEW TANKS	12000	SF	\$0.24	\$2,880	\$0.19	\$2,280	\$5,160

B. ANNUAL CONTROLS MAINTENANCE (I.E. LEVEL SWITCHES, VALVES, ETC.)

DESCRIPTION	QUANTITY		LABOR		MATERIAL		TOTAL
	NO	UNIT	UNIT	TOTAL	UNIT	TOTAL	
LABOR	16	HR	\$25.75	\$412	\$0	\$0	\$412
MATERIALS	1	LS	\$0.00	\$0	\$250	\$250	\$250
TOTAL							\$662

C. TOTAL ANNUAL COST

TOTAL = \$5,160 / 10 YEARS + \$662 / YEAR

TOTAL = \$1,178 / YR

APPENDIX L

Life Cycle Cost Calculations

**LIFE CYCLE COST ANALYSIS SUMMARY
ENERGY CONSERVATION INVESTMENT PROGRAM (ECIP)**

LOCATION: FORT BLISS, TEXAS REGION NO. 3 PROJECT NO. 94127001F
 PROJECT TITLE: FORT BLISS WATER DISTRIBUTION SYSTEM FISCAL YEAR 1994
 DISCRETE PORTION NAME: ALTERNATIVE 2 - ADDITIONAL STORAGE CAPACITY
 ANALYSIS DATE: 07/13/93 ECONOMIC LIFE 20 PREPARED BY S. P. CLARK

1. INVESTMENT COSTS:

A. CONSTRUCTION COST	<u>\$553,932</u>	
B. SOH	<u>\$30,741</u>	
C. DESIGN COST	<u>\$39,536</u>	
D. TOTAL COST (1A+1B+1C)	<u>\$623,209</u>	
E. SALVAGE VALUE OF EXISTING EQUIPMENT	<u>80</u>	
F. PUBLIC UTILITY COMPANY REBATE	<u>80</u>	
G. TOTAL INVESTMENT (1D-1E-1F)		<u>\$623,209</u>

2. ENERGY SAVINGS (+) OR COST (-):

DATE (OF NISTIR 85-3273-X USED FOR DISCOUNT FACTORS):

OCTOBER 1992

ENERGY SOURCE	COST \$/MBTU(1)	SAVINGS MBTU/YR(2)	ANNUAL \$ SAVINGS(3)	DISCOUNT FACTOR(4)	DISCOUNTED SAVINGS(5)
A. ELEC	<u>\$2.24</u>	<u>0</u>	<u>80</u>	<u>14.08</u>	<u>80</u>
B. DIST			<u>80</u>	<u>17.76</u>	<u>80</u>
C. RESID			<u>80</u>	<u>20.99</u>	<u>80</u>
D. NG	<u>\$2.80</u>	<u>0</u>	<u>80</u>	<u>20.80</u>	<u>80</u>
E. PPG			<u>80</u>	<u>13.59</u>	<u>80</u>
F. COAL			<u>80</u>	<u>16.32</u>	<u>80</u>
G. SOLAR			<u>80</u>	<u>13.59</u>	<u>80</u>
H. GEOTH			<u>80</u>	<u>13.59</u>	<u>80</u>
I. SOHA			<u>80</u>	<u>10.59</u>	<u>80</u>
J. REFUS			<u>80</u>	<u>13.59</u>	<u>80</u>
K. WIND			<u>80</u>	<u>13.56</u>	<u>80</u>
L. OTHER			<u>80</u>	<u>13.59</u>	<u>80</u>
M. DEMAND SAVINGS			<u>387,697</u>	<u>13.59</u>	<u>\$522,720</u>
N. TOTAL		<u>0</u>	<u>\$67,697</u>		<u>\$522,720</u>

3. NON ENERGY SAVINGS (+) OR COST (-):

A. ANNUAL RECURRING (+/-)	<u>-81,170.0</u>
1. DISCOUNT FACTOR (TABLE A)	<u>13.59</u>
2. DISCOUNTED SAVINGS/COST (3A X 3A1)	<u>-818,000</u>

LIFE CYCLE COST ANALYSIS SUMMARY
ENERGY CONSERVATION INVESTMENT PROGRAM (ECIP)

B NON RECURRING SAVINGS (+) OR COST (-)

ITEM	SAVINGS(+) OR COST(-) (1)	YEAR OF OCCUR (2)	DISCOUNT FACTOR (3)	DISCOUNTED SAVINGS(+) OR COST(-) (4)
a	\$0	1	0.95	\$0
b	\$0	2	0.92	\$0
c	\$0	3	0.89	\$0
d	\$0	4	0.85	\$0
e	\$0	5	0.82	\$0
f	\$0	6	0.79	\$0
g	\$0	7	0.76	\$0
h	\$0	8	0.73	\$0
i	\$0	9	0.7	\$0
j	\$0	10	0.68	\$0
k	\$0	11	0.65	\$0
l	\$0	12	0.62	\$0
m	\$0	13	0.6	\$0
n	\$0	14	0.56	\$0
o	\$0	15	0.53	\$0
p	TOTAL			\$0

C TOTAL NON ENERGY DISCOUNTED SAVINGS (SA2 + 33p4)

- \$15,000

D SIMPLE PAYBACK (15 / (2N3 + 3A + 12C) / ECONOMIC LIFE)

9.3 YEARS

E TOTAL NET DISCOUNTED SAVINGS (2N3 + 3C)

\$908,711

F SAVINGS TO INVESTMENT RATIO (SM) / V10

1.45

G ADJUSTED INTERNAL RATE OF RETURN (A RR)

6.0%

APPENDIX M - Scope of Work

1. 1953-54 2. 1954-55



1. ORDER NUMBER 100-434-1329		2. DELIVERY ORDER NO.		3. DATE OF ORDER 07/01/93		4. FACILITY/PLANT/PROJECT NO. F00-434-0101		5. PROJECT	
6. ORDERING DISTRICT: FTW P O BOX 17235 819 TALLA STREET FORT WORTH, TX 76102-0309 ATTN: J.E. SCAV		CODE 045490		17. ADMINISTERED BY See Block 6		CODE		8. DELIVERY FOR (1) LEFT () OTHER (See Remarks)	
9. CONTRACT NUMBER: 90000000		CODE 00077		FACILITY CODE		10. DELIVER TO FOR PM/IN BY		11. NAME OF B.G. IS (1) SMALL () SMALL DIS- ADVANTAGED () WOMEN-OWNED	
NAME: CARTER & HARRIS INC ADDRESS: 7300 HULEN STREET FORT WORTH, TX 76107-7234						12. DISCOUNT TERMS 0 30 NET 30			
						13. MAIL INVOICES TO See Block 15			
14. ORDER TO: US ARMY ENGINEER DISTRICT: FTW P O BOX 17235 819 TALLA STREET FORT WORTH, TX 76102-0309 200MAY931229		CODE 045490		15. PAYMENT WILL BE MADE BY DISBURSING OFFICER/ENGINEER US ARMY ENGINEER DISTRICT: FTW P O BOX 17235 FT. WORTH, TX 76102-0311		CODE PAYOFF		16. ALL PACKAGES AND PAPERS WITH CONTRACT OR ORDER NUMBER	
17. THIS DELIVERY ORDER IS ISSUED ON ANOTHER GOVERNMENT A.C. V OR IT ACCORDANCE WITH AND SUBJECT TO TERMS AND CONDITIONS OF ABOVE NUMBERED CONTRACT.									
18. REFERENCES YOUR _____ FURNISH THE FOLLOWING ON TERMS SPECIFIED PERIOD.									
19. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE ABOVE DELIVERY ORDER AS IF BY PREVIOUSLY MADE DELIVERED SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH AND AGREES TO PERFORM THE SAME									
20. NAME OF CONTRACTOR		SIGNATURE		DATED DATE AND TITLE		DATE SIGNED			
21. THIS ORDER IS ISSUED TO SUPPLIER WHO SIGN ACCEPTANCE AND RETURN THE FOLLOWING NUMBER OF COPIES:									
22. CONTRACTING AND APPROPRIATION DATA/LOCAL USE 210728 10 0073 072010.02 141443 19 070333000000 0000 004 027931209									
23. ORDER NO.		24. SCHEDULE OF SUPPLIES/SERVICES		25. QUANTITY UNITS/QUANTITY		26. UNIT PRICE		27. AMOUNT	
0001		PROVIDE AN ANALYSIS OF A BRANCH OF THE WATER DISTRIBUTION SYSTEM FOR P.O. ALICES IN ACCORDANCE WITH THE ATTACHED SCOPE OF WORK.		26		2000.0000		2000.00	
		POINT OF CONTACT: RICHARD DUNFRAE 017/334-1700							
28. ORDER ACCEPTED BY THE GOVERNMENT 29. 20 40 QUANTITY ORDERED 30. 20 40 QUANTITY ORDERED 31. 20 40 QUANTITY ORDERED 32. 20 40 QUANTITY ORDERED		33. ORDERED BY R. Cedar 017/334-1700		34. ORDERED BY 9/2/93 017/334-1700		35. TOTAL 2000.00		36. DIFFERENCES	
37. ORDER NO. 00000000		38. SHIP. NO.		39. ORDER NUMBER		40. INITIALS		41. ORDERED BY	
42. ORDER NO. 00000000		43. ORDER NO. 00000000		44. ORDER NO. 00000000		45. ORDER NO. 00000000		46. ORDER NO. 00000000	
47. ORDER NO. 00000000		48. ORDER NO. 00000000		49. ORDER NO. 00000000		50. ORDER NO. 00000000		51. ORDER NO. 00000000	
52. ORDER NO. 00000000		53. ORDER NO. 00000000		54. ORDER NO. 00000000		55. ORDER NO. 00000000		56. ORDER NO. 00000000	
57. ORDER NO. 00000000		58. ORDER NO. 00000000		59. ORDER NO. 00000000		60. ORDER NO. 00000000		61. ORDER NO. 00000000	
62. ORDER NO. 00000000		63. ORDER NO. 00000000		64. ORDER NO. 00000000		65. ORDER NO. 00000000		66. ORDER NO. 00000000	
67. ORDER NO. 00000000		68. ORDER NO. 00000000		69. ORDER NO. 00000000		70. ORDER NO. 00000000		71. ORDER NO. 00000000	
72. ORDER NO. 00000000		73. ORDER NO. 00000000		74. ORDER NO. 00000000		75. ORDER NO. 00000000		76. ORDER NO. 00000000	
77. ORDER NO. 00000000		78. ORDER NO. 00000000		79. ORDER NO. 00000000		80. ORDER NO. 00000000		81. ORDER NO. 00000000	
82. ORDER NO. 00000000		83. ORDER NO. 00000000		84. ORDER NO. 00000000		85. ORDER NO. 00000000		86. ORDER NO. 00000000	
87. ORDER NO. 00000000		88. ORDER NO. 00000000		89. ORDER NO. 00000000		90. ORDER NO. 00000000		91. ORDER NO. 00000000	
92. ORDER NO. 00000000		93. ORDER NO. 00000000		94. ORDER NO. 00000000		95. ORDER NO. 00000000		96. ORDER NO. 00000000	
97. ORDER NO. 00000000		98. ORDER NO. 00000000		99. ORDER NO. 00000000		100. ORDER NO. 00000000		101. ORDER NO. 00000000	
102. ORDER NO. 00000000		103. ORDER NO. 00000000		104. ORDER NO. 00000000		105. ORDER NO. 00000000		106. ORDER NO. 00000000	
107. ORDER NO. 00000000		108. ORDER NO. 00000000		109. ORDER NO. 00000000		110. ORDER NO. 00000000		111. ORDER NO. 00000000	
112. ORDER NO. 00000000		113. ORDER NO. 00000000		114. ORDER NO. 00000000		115. ORDER NO. 00000000		116. ORDER NO. 00000000	
117. ORDER NO. 00000000		118. ORDER NO. 00000000		119. ORDER NO. 00000000		120. ORDER NO. 00000000		121. ORDER NO. 00000000	
122. ORDER NO. 00000000		123. ORDER NO. 00000000		124. ORDER NO. 00000000		125. ORDER NO. 00000000		126. ORDER NO. 00000000	
127. ORDER NO. 00000000		128. ORDER NO. 00000000		129. ORDER NO. 00000000		130. ORDER NO. 00000000		131. ORDER NO. 00000000	
132. ORDER NO. 00000000		133. ORDER NO. 00000000		134. ORDER NO. 00000000					

13 MAY 1994

CARTER-BURGESS
3880 HULEN STREET
P.O. BOX 985006
FORT WORTH, TX.
76185-5006

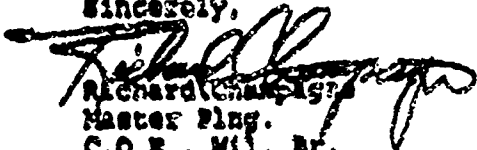
Gentlemen:

Reference Purchase Order for the analysis of the Water
Distribution System at Fort Bliss, TX.

You are hereby authorized to proceed as required under the
scope of work for this project. Your firm has been
requested to submit a draft prefinal report, prior to
submitting a final report for this study.

Should you have any questions, please contact Richard
Champagne at (817) 334-2750.

Sincerely,


Richard Champagne
Master Eng.
C.O.E., Mil. Br.
Fort Worth

Fort Bliss Water Distribution Study Scope of Work and Assumptions

SCOPE OF WORK

1. Gather and compile data from Fort Bliss Public Works for the Water Distribution System which serves William Beaumont Army Medical Center (WBAMC).
2. Perform a site investigation to gather additional data.
3. Analyze and update the existing KY Pipe data files created by Texas A&M for a previous study.
4. Use the KY Pipe model (for the peak daily usage) to simulate the hours between 10:00 am and 5:00 pm to determine if the pumps serving WBAMC can be scheduled "off" during the peak electrical usage period.
5. Based on the KY Pipe analysis and the assumptions listed below, calculate the construction cost, energy savings and life cycle cost for the additional storage capacity at WBAMC.
6. Provide the analysis results in a life cycle cost analysis report complete with recommendations.

LIST OF ASSUMPTIONS

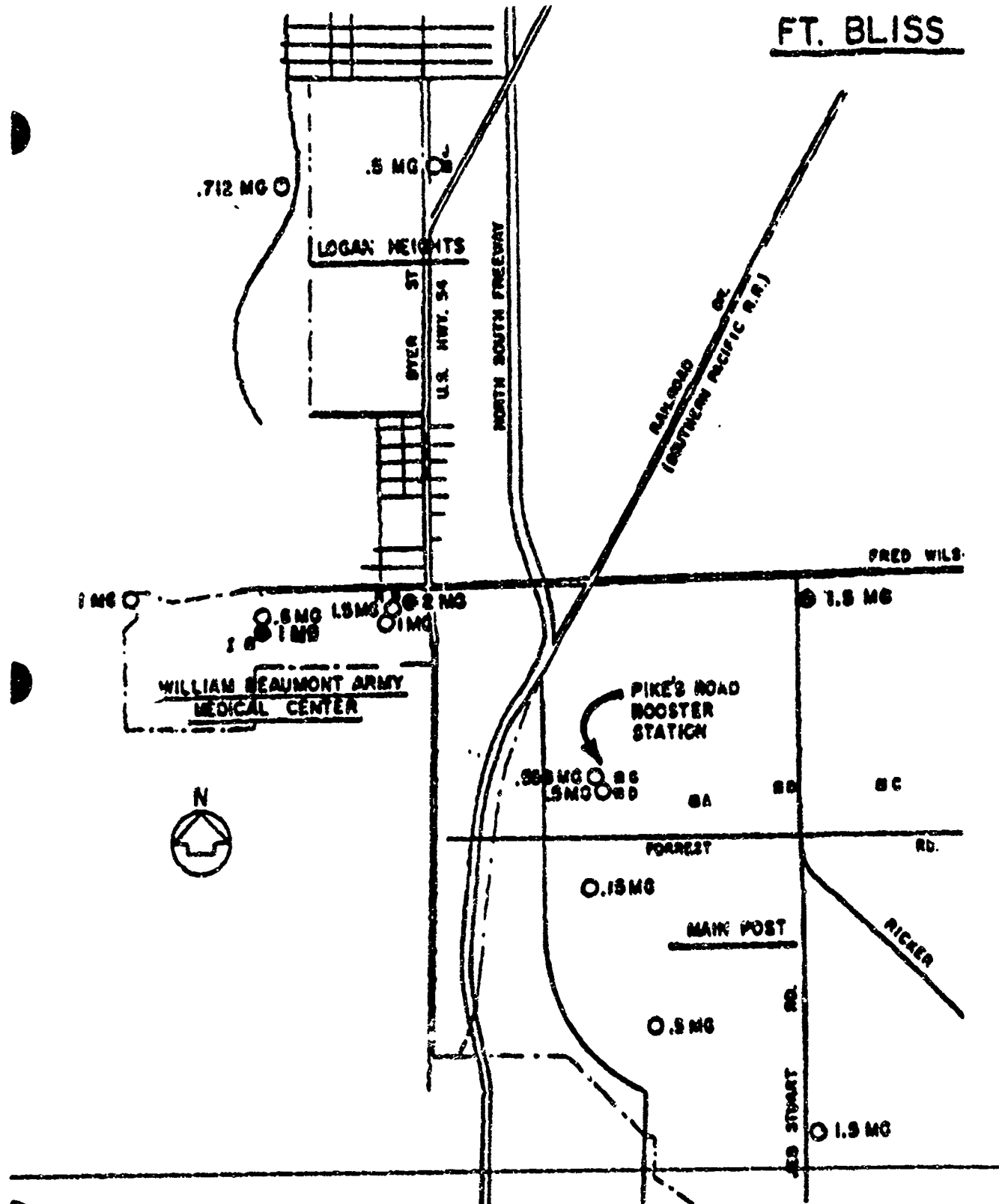
1. WBAMC is the most critical branch of the entire water distribution system based on observations of Fort Bliss Public Works.
2. Fort Bliss Public Works will provide the A/E with the KY Pipe data files as well as twelve months of historical hourly pumping data (on disk) for all of the well and distribution pumps for the WBAMC water distribution system.
3. A/E will adjust the historical data to reflect the added consumption from three residential areas and Logan Heights based on "typical" capacity and demand for noted usage. Also, a reasonable safety factor will be added (i.e. 10-15%).
4. Fort Bliss Public Works will provide the A/E with drawings of the WBAMC water distribution system, including location and sizes for all pumps and piping, as well as tank locations and elevations.
5. Fort Bliss Public Works will provide the A/E with lowest acceptable tank water levels to maintain fire flows and dilution requirements for the tanks associated with WBAMC.

**Fort Bliss Water Distribution Study
Scope of Work and Assumptions**

- D**
6. Using the tank level information and the pumping run time and capacity data, the A/E will calculate the average hourly draw down rate for each tank for use in the KY Pipe analysis.
- D**

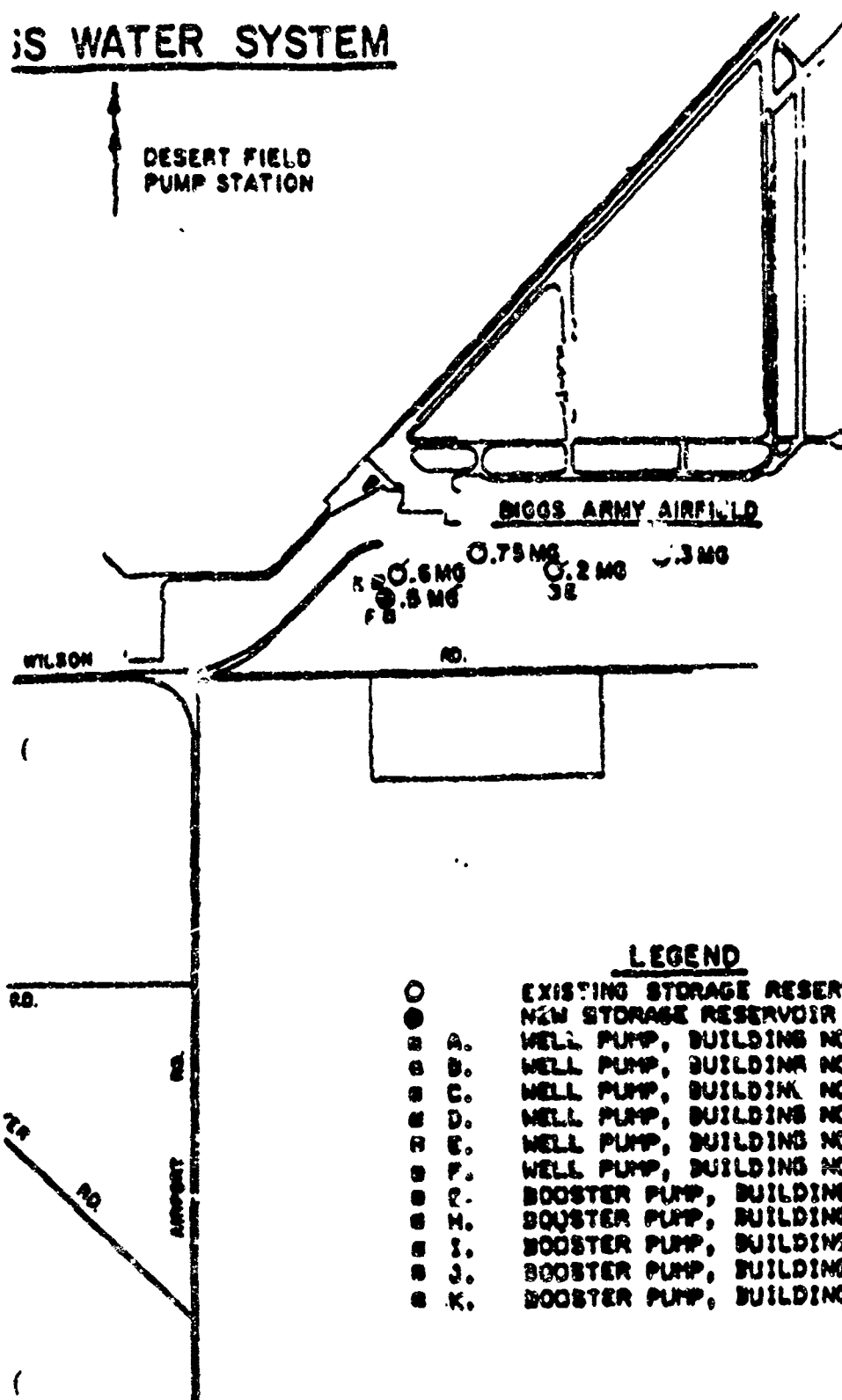
D

APPENDIX N - Map



IS WATER SYSTEM

DESERT FIELD
PUMP STATION



LEGEND

- EXISTING STORAGE RESERVOIR
- NEW STORAGE RESERVOIR
- A. WELL PUMP, BUILDING NO. 1170
- B. WELL PUMP, BUILDING NO. 1252
- C. WELL PUMP, BUILDING NO. 2451
- D. WELL PUMP, BUILDING NO. 1998
- E. WELL PUMP, BUILDING NO. 11241
- F. WELL PUMP, BUILDING NO. 11180
- R. BOOSTER PUMP, BUILDING NO. 1318
- H. BOOSTER PUMP, BUILDING NO. 7084
- I. BOOSTER PUMP, BUILDING NO. 7242
- J. BOOSTER PUMP, BUILDING NO. 4318
- K. BOOSTER PUMP, BUILDING NO. 11171

APPENDIX O

Symbols, Abbreviations and Conversion Factors

SYMBOLS AND ABBREVIATIONS

KW	• Kilowatt (1,000 watts)
KWH	• Kilowatt-hour (1,000 watt-hours)
CF	• Cubic Feet
KCF	• 1,000 Cubic Feet
MCF	• 1,000,000 Cubic Feet
BTU	• British Thermal Unit
KBTU	• 1,000 BTUs
MBTU	• 1,000,000 BTUs

CONVERSION FACTORS

1 KWH	= .003413 MBTU
1 KCF	= 1.031 MBTU

APPENDIX N - DD Form 1391

1. COMPONENT ARMY		FY 1994 MILITARY CONSTRUCTION PROJECT DATA		2. DATE Aug. 1994	
3. INSTALLATION AND LOCATION Fort Bliss, El Paso, Texas			4. PROJECT TITLE Water Distribution Energy Retrofit		
5. PROGRAM ELEMENT		6. ESTIMATED COST 80000	7. FUND ACT NUMBER	8. PROJECT COST CODE 623	
9. COST ESTIMATES					
ITEM		QTY	UNIT	EST. COST	EST. AMOUNT
Additional water storage tanks		Gal	1,000,000	.559	559
Subtotal					559
Contingency (5%)					28.9
Total Contract Cost					587.9
SICR (6.0%)					35.3
Total Request					623.2
Total Request Rounded					623
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS					
10. DESCRIPTION OF PROPOSED CONSTRUCTION:					
<p>The water distribution retrofit at Fort Bliss consists of installing 1 million gallons of additional storage capacity to eliminate the need to operate the distribution and well pumps during peak electrical periods. The retrofit system results in a discounted payback period of 9.3 years. A Savings To Investment Ratio (SIR) of 1.45 and an Adjusted Rate of Return (AIRP) of 6%.</p>					
11. REQUIREMENTS:					
Refer to attached for additional information.					

I. System Description

The existing water distribution system consists of 17 well pumps and 5 booster pumping stations. The desert field well and booster pumps were not included in this study due to their remote location. The well and booster pumps provide water supply to several ground elevated storage tanks located across the reservation (Refer to Appendix N for map indicating general locations). These storage tanks are located to provide three pressure zones. The upper pressure zone is maintained by a one million gallon tank. The intermediate pressure zone is maintained by a 0.6 million gallon tank. Pressure in the lower zone is maintained by three (3) elevated storage tanks.

II. Analysis Of Present Energy Consumption

In order to establish the energy consumption of the existing water distribution system, El Paso Electric supplied 30-minute measured KW demand values as well as utility bills for the entire base for the period from September 1991 through August 1992 (Refer to Appendix B for this data). This data was used to determine the peak electrical demand day for the entire base which El Paso Electric utilizes for billing purposes each month. Next, the Williams Electric Automated Control System was utilized to download the pump run-time data for each pump, for each of the peak days during the 12-month period previously identified (Refer to Appendix E for this data). Using the run-time data and the KW demand for each pump, the total pumping system electrical demand was calculated and subtracted from the base electrical demand and plotted with the total base demand (Refer to Appendix C for these graphs). These graphs represent the maximum demand savings possible through modification of the water distribution system. These graphs were then used to determine the maximum peak shaving potential, and the most advantageous operating period for the peak shaving methods. Example energy calculations along with a narrative description are included in Appendix D. The total peak shaving potential for the pumping system was determined to be 3,158 KW/YR (Refer to Appendix E for calculations). The most advantageous period for peak shaving is between 10:00 a.m. and 3:00 p.m. daily (Refer to Appendix C).

III. Analysis of Present Water Consumption

A. Purpose

The purpose of the water distribution system modeling was to determine the additional water storage requirements needed to operate the system with distribution and well pumps turned-off during the hours of 10:00 am to 3:00 p.m.

B. Proposed Water Demands

Existing pumping records for distribution and well pumps for the periods between March 1993 and February 1994 for the Fort Bliss and William Beaumont Army Medical Center (WBAMC) systems were analyzed. The well pumping data was utilized to represent the average daily demand. The average day well pumpage rate was 3.21 MGD. The peak day well pumpage occurred on June 16, 1993 and was 6.95 MGD. Hourly pumping records were unavailable for the wells and distribution system pumps.

Tank level information was not available. It is reasonable to assume the average daily and peak day pumpage corresponds to the water demands within the system. Hourly records of pumping or tank levels are not available. Hourly electrical power usage by pump (from Energy Engineering Analysis Program report prepared by Carter and Burgess, dated February 1993) was used to evaluate the diurnal water demands. The peak day pumping records for July 23, 1992 are presented in the table contained in Appendix F. A graph of the diurnal demand for July 23, 1992 is also contained in Appendix F. The maximum hour usage occurred at 10:00 pm.

C. Analysis

The KY pipe computer file for the base model was supplied by Fort Bliss and was developed for a previous study performed by Texas A&M University in March of 1991. The total peak day demand in the modeling was 11.13 MGD. The base file with the 11.13 MGD peak day demand was modified to reflect future growth in the water system. Point source demands for the Van Horn and Logan Heights Additions were added to the model. The peak day water consumption used for Van Horn and Logan Heights are 0.80 MGD and 1.95 MGD respectively. Also, the water demand at the Hospital was increased by 25 percent. The total peak day demand model was 13.89 MGD.

Several different demand conditions were modeled with the Fort Bliss water distribution system model for steady state conditions including:

- Peak Day Demands
- Peak Day Demands with all pumps off
- Maximum-Hour Demands (using a 1.7 peak day-to maximum hour ratio)
- Tank Filling during Low Demand Periods (using a 0.70 peak day to late evening/early morning demand ratio)

For the demand conditions listed above several scenarios were evaluated to further refine the system. Peak day and maximum hour demands were modeled with existing pumping capabilities and proposed pumping

replacements. Several iterations were performed for the tank filling scenario to evaluate the existing pumps and the ability of the system to fill the tanks and provide supply to the system. From analysis of the computer modeling and calculations it was determined that additional pumping and storage capacity would be necessary to operate the system as proposed.

D. Results

Additional water storage capacity of 0.75 MG is recommended in the vicinity of Tanks 7241, to supply the upper pressure plane with ground storage and provide elevated storage to the middle pressure plane. Additional water storage capacity is recommended in the vicinity of Tanks 7090/7088, to provide ground water supply to the middle pressure plane in the event supply from the lower pressure plane is interrupted. Interruption of the supply could include a broken pipeline, inoperative pumps, or if supply to the lower pressure plane was temporarily interrupted.

Additional pumping of 1200 gpm is needed to refill the proposed tank near Tank 7241. Since no pumping will occur during the hours of 10:00 am to 3:00 pm, the meeting of the domestic demands as well as filling of storage tanks is required in the remaining hours. In order to refill all the elevated storage in the lower pressure plane and Tanks 7090/7088 and the proposed .25 MG tank and additional pumping of 3500 gpm is required at the Pike Pump Station.

A summary of the recommended water system capital improvements required for electrical peak shaving is listed in the table below.

Summary of Capital Improvements for Water Distribution System	
Improvement	Location
New 0.75 MG Storage Tank	Middle Pressure Plane (near tank 7241)
Replacement of pump #2 with 2800 gpm pump	WBAMC Station #7242
Replacement of 10" line with 12" line (approx 3300 LF)	Service line from 7090 to 7241
New .25 MG Storage Tank	Middle Pressure Plane (near tanks 7088/7090)
Replacement of pump #2 with 5800 gpm pump	Pike Station #1318

IV. Analysis Of Energy Conservation Opportunities (ECO's)

A. Increase Storage Capacity (Alternative #2)

The addition of 1.0 million gallons of storage tank capacity was analyzed. The existing storage capacities for all of the tanks at Fort Bliss are listed in Appendix F. The size and location of the new storage tanks were based on the results of the KY pipe analysis discussed and are as follows:

WBAMC:	Middle	.75 MG
	Lower	<u>25 MG</u>
Total		1.0 MG

This additional storage capacity will allow the well and booster pumps to be shut-off during on-peak utility periods. The existing Williams Electric Control system would be utilized to disable the pumps during specified peak periods. Software changes only would be required to accomplish the added functions using the existing control system.

V. Conclusions

The results of this study indicate that increased storage capacity for the Fort Bliss Water Distribution System will result in an SIR of 1.45, a simple payback of 9.3 years and an negative Adjusted Internal Rate of Return (AIRR) of 6.0%.

**LIFE CYCLE COST ANALYSIS SUMMARY
ENERGY CONSERVATION INVESTMENT PROGRAM (ECIP)**

LOCATION: FORT BLISS, TEXAS REGION NO. 8 PROJECT NO. 84127801F
 PROJECT TITLE: FORT BLISS WATER DISTRIBUTION SYSTEM FISCAL YEAR 1994
 DISCRETE PORTION NAME: ALTERNATIVE 2 - ADDITIONAL STORAGE CAPACITY
 ANALYSIS DATE: 07/12/83 ECONOMIC LIFE 20 PREPARED BY S. P. CLARK

1. INVESTMENT COSTS:

A. CONSTRUCTION COST	<u>8558,932</u>	
B. EION	<u>330,741</u>	
C. DESIGN COST	<u>833,536</u>	
D. TOTAL COST (1A+1B+1C)	<u>9723,209</u>	
E. SALVAGE VALUE OF EXISTING EQUIPMENT	<u>80</u>	
F. PUBLIC UTILITY COMPANY REBATE	<u>80</u>	
G. TOTAL INVESTMENT (1D-1E-1F)		<u>9623,209</u>

2. ENERGY SAVINGS (+)/COST(-):

DATE OF NISTIR 85-3273-X USED FOR DISCOUNT FACTORS:

OCTOBER 1992

ENERGY SOURCE	COST \$/MBTU(1)	SAVINGS MBTU/YR(2)	ANNUAL \$ SAVINGS(3)	DISCOUNT FACTOR(4)	DISCOUNTED SAVINGS(5)
A. ELEC	<u>82.24</u>	<u>0</u>	<u>80</u>	<u>14.88</u>	<u>80</u>
B. DIST			<u>80</u>	<u>17.70</u>	<u>80</u>
C. RESID			<u>80</u>	<u>20.66</u>	<u>80</u>
D. NG	<u>82.40</u>	<u>0</u>	<u>80</u>	<u>22.80</u>	<u>80</u>
E. FPG			<u>80</u>	<u>13.89</u>	<u>80</u>
F. COAL			<u>80</u>	<u>18.33</u>	<u>80</u>
G. SOLAR			<u>80</u>	<u>13.89</u>	<u>80</u>
H. GEOTH			<u>80</u>	<u>13.89</u>	<u>80</u>
I. BIOMA			<u>80</u>	<u>13.89</u>	<u>80</u>
J. REFUR			<u>80</u>	<u>13.89</u>	<u>80</u>
K. WIND			<u>80</u>	<u>13.89</u>	<u>80</u>
L. OTHER			<u>80</u>	<u>13.89</u>	<u>80</u>
M. DEMAND SAVINGS			<u>887,687</u>	<u>13.89</u>	<u>8822,720</u>
N. TOTAL		<u>0</u>	<u>887,687</u>		<u>8822,720</u>

3. NON ENERGY SAVINGS (+) OR COST (-):

A. ANNUAL RECURRING (+/-)	<u>-91,178.0</u>	
1. DISCOUNT FACTOR (TABLE 2)		<u>13.89</u>
2. DISCOUNTED SAVINGS/COST (3A X 3A1)		<u>-816,028</u>

**LIFE CYCLE COST ANALYSIS SUMMARY
ENERGY CONSERVATION INVESTMENT PROGRAM (ECIP)**

B. NON RECURRING SAVINGS (+) OR COST(-)

ITEM	SAVINGS(+) COST(-)(1)	YEAR OF OCCUR.(2)	DISCOUNT FACTOR(3)	DISCOUNTED SAVINGS(+) COST(-)(4)
a.	\$0	1	0.98	\$0
b.	\$0	2	0.92	\$0
c.	\$0	3	0.89	\$0
d.	\$0	4	0.85	\$0
e.	\$0	5	0.82	\$0
f.	\$0	6	0.79	\$0
g.	\$0	7	0.76	\$0
h.	\$0	8	0.73	\$0
i.	\$0	9	0.7	\$0
j.	\$0	10	0.68	\$0
k.	\$0	11	0.65	\$0
l.	\$0	12	0.62	\$0
m.	\$0	13	0.6	\$0
n.	\$0	14	0.58	\$0
o.	\$0	15	0.56	\$0
p. TOTAL	\$0			\$0

C. TOTAL NON ENERGY DISCOUNTED SAVINGS (SA2 + 38p4)

- \$18,008

4. SIMPLE PAYBACK 10Y(2NS + 3A + C8821/ECONOMIC LIFE):

8.2 YEARS

5. TOTAL NET DISCOUNTED SAVINGS (2NS + 3C):

\$905,711

6. SAVINGS TO INVESTMENT RATIO (SIR) %/10:

1.45

7. ADJUSTED INTERNAL RATE OF RETURN (AIRR):

8.0%

COST ESTIMATING ANALYSIS				DIVISION/CONTRACTOR				DRAWING NO.		SHEET OF	
PROJECT: FORT BLISS WATER DISTRIBUTION SYSTEM				CODE:				ESTIMATOR:		DATE PREP:	
LOCATION: FORT BLISS, TEXAS				000				CLARK		15-25-64	
ALTR - ADDITIONAL STORAGE CAPACITY				LABOR				EQUIPMENT		MATERIALS	
TASK DESCRIPTION		QUANTITY		UN PRICE		COST		UN PRICE		COST	
HVAC		NO	UNIT	HR	UN PRICE	COST	UN PRICE	COST	UN PRICE	COST	TOTAL
STORAGE TANK											
FOUNDATION:											
EXCAVATION	180	CY			5.00	900.00	3.00	540.00	0.00	0.00	1440.00
HAUL EARTH	180	CY			2.00	360.00	7.45	1341.00	0.00	0.00	1701.00
FOUNDATION BACKFILL	180	CY			3.00	540.00	4.00	720.00	0.00	0.00	1260.00
COMPACTION	180	CY			4.00	720.00	5.00	900.00	0.00	0.00	1620.00
DRILLED PIERS	16	EA			65.97	1055.52	65.00	1040.00	119.10	1905.60	2955.12
12" CONC. SLAB ON GRADE	4000	SF			0.50	2000.00	0.25	1000.00	4.50	1800.00	4130.00
TANKS:											
75 ML. GAL. STEEL TANK	1	EA			25000.00	25000.00	25100.00	25100.00	113400.00	113400.00	197900.00
25 ML. GAL. STEEL TANK	1	EA			35400.00	35400.00	11500.00	11500.00	80000.00	80000.00	80000.00
PUMP:											
2500 GPM PUMP	1	EA			1000.00	1000.00	300.00	300.00	10000.00	10000.00	13700.00
5000 GPM PUMP	1	EA			4000.00	4000.00	300.00	300.00	14000.00	14000.00	18300.00
PIPING:											
12" DUCTILE IRON	200	LF			12.00	2400.00			10.00	2000.00	4400.00
CONTROLS:											
SOFTWARE CHANGES	1	LS									4000.00
SUBTOTAL						3120.00	630.00		3270.00		6470.00
MEANS MODIFIED (20.5%)											1328.30
OVERHEAD & PROFIT						20.00%					804.70
CONTINGENCY (2%)						5.00%					161.20
TOTAL COST											8744.20